

Swathi Yenugu, PMP.

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Professional Summary:

- **More than 15+ Years** of IT experience with including **Web/Application Full stack Developer** and coding with analytical programming using **Python, Java, OOP features, NumPy, Pandas, Data frames, various python features and libraries, PySpark, Django, AWS IAM, S3, EC2, Lambdas/step functions, AWS ECS, AWS EKS, boto3, MySQL, DynamoDB, SQL, Cassandra, Ansible Playbooks**
- **Experience in Cloud deployments: Docker, ECS, EBS.**
- Experienced with full software development life cycle, architecting scalable platforms, object-oriented programming, database design and agile methodologies.
- Experienced in working with various stages of Software Development Life Cycle (**SDLC**), Software Testing Life Cycle (**STLC**) and QA methodologies from project definition to post-deployment documentation.
- Experience with **Design, code, debugging operations, reporting, data analysis** and **Web Applications** utilizing **Python**.
- Experienced in implementing **Object Oriented Python, Hash Tables (Dictionaries)** and Multithreading, Django, MySQL, Exception Handling and **Collections** using **Python**.
- Strong experience in UX/UI Development using JavaScript,
- Worked with MVW frameworks like **Django, HTML, CSS, XML**.
- Collaborating with backend developers to integrate RESTful APIs and ensure seamless data exchange between frontend and backend application
- Strong experience of software development in Python (libraries used: **libraries** - Beautiful Soup, **NumPy**, python- **Pandas** data frame, MySQL dB for database connectivity) and **IDEs** - sublime text, Spyder, emacs.
- Direct experience working with various Relational Database Management Systems (RDBMS) like **MySQL**, Microsoft SQL Server, Oracle & non- relational databases (NoSQL) like **DynamoDB** and **Cassandra**.
- Direct Telecom (Rogers, Motorola) and Banking Domains (Canadian Imperial Bank of Commerce, SWIFT BANK)
- Experienced in developing Web Services with Python programming language - implementing JSON based **RESTful** and **XML** based **SOAP** web services.
- Experience in developing AWS Serverless applications Using AWS Lambda, Step functions, Orchestration.
- Experience in building Event driven architecture using AWS IAM, AWS Lambda, AWS Services like S3, Dynamo DB, SNS, SQS, EBS
- **PyCharm** Proficient in performing Data analysis and Data Visualization using Python libraries.
- Unit testing using pytest, PyUnit text fixtures, unit tests, positive and negative unit testing using assertions, setup, and teardown methods.
- Scaling up projects using python tools like multithreading, celery.

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- Experience in using Version Control Systems like the one **GIT**, and **CVS** to keep the versions and configurations of the code organized.
- Experience in **UNIX/Linux shell** scripting for job scheduling, batch-job scheduling, automating batch programs, forking, and cloning jobs.
- Developed backend Programming using **JAVA OOP Features: Abstraction, Encapsulation, Inheritance and Polymorphism**.
- Exposure to **CI/CD** tools - **Jenkins** for Continuous Integration, **Ansible** for continuous deployment.
- Extensively worked on **Jenkins**, **Build Forge** for continuous integration and for End-to-End automation for all build and deployments.
- Direct Python OOP Features: Abstraction, Encapsulation, Inheritance and Polymorphism.
- Python Data analysis using **Panadas** and **Data frames**.
- Performed **JAVA JUnit** testing as part of development backend features in **JAVA**.
- Experienced with containerizing applications using **Docker**.
- Experience in maintaining and executing build scripts to automate development and production builds.
- Experience in **Amazon Web Services (AWS)** cloud platform like **EC2**, **Virtual private clouds (VPCs)**, **Storage models (EBS, S3, instance storage)**, **Elastic Load Balancers (ELBs)**.
- Experienced in developing **API** services in **Python/Tornado**, while leveraging **Flask** for distributed architectures.
- Experience with Unit testing/ Test driven Development (TDD), Load Testing.
- Experienced in building tools such as **ANT**, **Apache MAVEN**, and **JENKINS**.
- Experience in deploying applications in heterogeneous Application Servers **TOMCAT**, **Web Logic**, and **Oracle Application Server**.
- Good Experience on testing tools like **JIRA** and **Bugzilla** for bug tracking.
- Excellent interpersonal and communication skills, efficient time management and organization skills, ability to oversee multiple tasks.
- Experienced in installing, configuring, modifying, assessing, and deploying applications with **Apache**.
- Understanding of **Python Best Practices (PEP-8)**.
- Well versed with design and development of presentation layer for web applications using technologies like **HTML**, **CSS**, and **JavaScript**.
- Worked on **SQL** and used to create access to data and deployed them to **Oracle** and **SQL server** databases.
- Familiar with **JSON** based **REST** Web services and **Amazon Web Services (AWS)**.
- Experienced in developing Web Services with **Python** programming language.

Technical Skills:

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|--------------------|---|
| Languages: | Python, Java, C++, PHP, PL/SQL, |
| Version Controls: | GIT, GitHub, CVS |
| Web Technologies: | JavaScript, HTML, CSS, AngularJS, Node JS, JSON, SSO (Single Sign MFA |
| Frameworks: | Django, Flask |
| Web Services: | Soap, Apache Axis, Restful |
| Cloud: | AWS, Open stack |
| Databases: | PostgreSQL, MySQL, MariaDB, Oracle 8i/9i/10g, MS Access, SQL Serv Sybase, SQLite, SQL Alchemy |
| Operating Systems: | Linux, Windows, IOS, MAC OSX |
| NoSQL Databases: | Mongo DB, Cassandra |
| Protocols: | TCP/IP, HTTP/HTTPS, SMTP, SNMP |

Education and Certification Details:

- Bachelor of Technology in Computer Science Engineering (B. Tech C.S.E) 1996-2000.
- Project management Professional (PMP) by PMI

Professional Experience:

Client: Swift Bank- Swift Technology Center, Manassas

Feb 2021 -

Till Date

Role: Lead Python Full Stack Developer

Responsibilities:

- Gathering requirements and translating the **Business details** into **technical design**.
- Participated in all the stages of software development lifecycle (**SDLC**) like design, testing development and implementation.
- Developed backend GPI PTAPP major features for GCCT and GFIT modules programming using JAVA, and JAVA OOP Features and Junit
- Experience in building reusable components using React JS.
- Experience in developing web applications using CSS, JSX and Java Script
- Developed entire frontend and one backend modules using **Python** and Python Libraries by implementing MVC architecture.

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- Web Application development and maintenance using Django and React JS.
- Lead team of 11 by mentoring and guiding them to achieve project objectives.
- Developed the tools using **Python**, **AWS boto3**, **Lambdas**, **NumPy** and **MySQL**, Parsers written in Python for extracting useful data from the design database.
- Implemented responsive user interface and standards throughout the development and maintenance of the website using **HTML**, **CSS**, **JavaScript**.
- Experience in Managing deployments using Ansible Playbooks
- Experience in Django **Web application development** and **Python Libraries** for ingesting data from flat files using Python Pandas and Data frames for data processing and analyzing
- Experience in developing AWS Serverless applications Using AWS Lambda, Step functions, Orchestration.
- Experience in building Event driven architecture using AWS Lambda, AWS Services like S3, Dynamo DB, SNS, SQS.
- Deploying AWS serverless applications using AWS SAM and using resources JSON and YAML templates.
- Used JIRA to build an environment for development.
- Managing Ansible Playbooks for maintaining build Automation tasks using Ansible
- Developed Wrapper in Python for instantiating multi-threaded application.
- Creating **RESTful** web services for Catalog and Pricing with MySQL and DynamoDB.
- Fixed bugs, providing production support, enhanced applications by improving code reuse and performance by making effective use of various design patterns.
- Deployed and monitored scalable infrastructure on Amazon web services (**AWS**).
- Implemented monitoring, established best practices around using Elastic search, and used AWS Lambda to run code without managing servers.
- Front-end web development using HTML/CSS as well as back-end development using Flask and **SQL**.
- Used Python based GUI components for the front-end functionality such as selection criteria. Administration of resolute collocated RHEL 4 machine and configured complex Apache configuration files.
- Experienced in building a Command line tool to interact with RESTful API using in Flask.
- Familiar with **UNIX / Linux** internals, basic cryptography & security.
- Generated graphical reports using python package **NumPy** and **PySpark**.
- Unit testing using pytest, PyUnit text fixtures, unit tests, positive and negative unit testing using assertions, setup, and teardown methods.
- Implemented task object to interface with data feed framework, invoke database message service setup, and update functionality.
- Performed efficient delivery of code based on principles of Test-Driven Development (**TDD**) and continuous integration to keep in line with Agile Software Methodology principles.

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Environment: Python, Django, Angular.js, HTML5, CSS, Bootstrap, JSON, JavaScript, AJAX, RESTful web service, MySQL, MySQL, Elastic search, Docker, Windows 12 Server, AWS (EC2, S3), PyUnit, Jenkins, Selenium Automation Testing.

Client: Canadian Imperial Bank of Commerce-Toronto, Canada

Nov

2019 to Jan 2021

Role: Lead Python Full Stack Developer

Responsibilities:

- Analysis and Design of applications.
- Developed and evaluated Fixed Investment and Products and Forms features for dashboard using Python, Django, and JavaScript.
- Lead the team of 8 by mentoring and guiding them to achieve project deadlines as per expected business requirements, scope, cost and time.
- Worked with millions of database records daily, finding common errors and bad data patterns and fixing them.
- Implemented SSO (Single Sign On) design solutions across multiple web applications and supported MFA (Multi Factor Authentication)
- Experience in developing AWS Serverless applications Using AWS Lambda, Step functions, Orchestration.
- Experience in building Event driven architecture using AWS Lambda, AWS Services like S3, Dynamo DB, SNS, SQS
- Exported/Imported data between different data sources using SQL Server Management Studio.
- Maintained program libraries, user's manuals, and technical documentation.
- Managed large datasets using Python Pandas data frames, PySpark and MySQL.
- Developed backend Modules Products and Forms using JAVA and JAVA OOP Features and Junit testing.
- Wrote and executed various MySQL database queries from python using Python-MySQL connector and MySQL dB package.
- Web Application support using Django.
- Implemented user interface guidelines and standards throughout the development and maintenance of the website using the CSS3, HTML5, JavaScript, React JS
- Direct experience in writing and reviewing requirements, architecture documents, test plans, design documents, quality analysis and audits.
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- Setting up databases in AWS using RDS and configuring instance backups to S3 bucket
- Work closely with development teams to integrate their projects into the production AWS environment and ensure their ongoing support.

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- Performed troubleshooting, fixed, and deployed Python bug fixes of the two main applications that are main source of data for both customers and internal customer service team.
- Used Go Lang to create backend servers. Developed Micro services using Go language and developed corresponding test cases.
- Contributed source code in Golang to developing an automation framework for AWS CFN.
- Created PDF reports using Golang and XML documents to send it to all customers at the end of month with international language support.
- Taken part in entire life cycle of the projects including Design, Development, and Deployment, Testing and Implementation and support.
- Implemented a continuous Delivery Pipeline with Jenkins and GitHub to build a new Docker container automatically.
- Used Docker to implement a high-level API to provide lightweight containers that run processes isolation and worked on creation of customized Docker container images, tagged, and pushed the images to the Docker repository.
- Worked in development of applications especially in UNIX environment and familiar with all its commands.
- Refactored existing project to make it more RESTful and thread safe.
- Developed Golang API and chat-bot using TDD to automate software deployments and rollbacks.
- Designed RESTful XML web service for handling AJAX requests.
- Created project designs utilizing MVC architecture components.

Environment: Python, Django, Golang, Angular.js, HTML5/CSS, UNIX, MS SQL Server 2013, AWS, boto3, T-SQL, Reports, JavaScript, Eclipse, Linux, Shell Scripting, Restful

Client: Ministry of Environment- Toronto, Canada

Sep 2019

to Nov 2019

Role: Python Full Stack Developer

Responsibilities:

- Participated in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.
- Used the Django Framework to develop the application.
- Implemented web applications in Flask and spring frameworks following MVC architecture.
- Used Python to place data into JSON files for testing Django Websites.
- Updated and manipulated content and files by using python scripts.
- Organized Python code using PEP8 online tool including documentation of scripts.

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- Implemented web applications in Flask and spring frameworks following MVC architecture.
- Used Django configuration to manage URLs and application parameters.
- Wrote Automation test cases using Selenium WebDriver using Python API.
- Sole engineer responsible for automated test design, frontend and backend feature implementation, and any other improvements to the test automation framework.
- Designed and implemented a distributed, QA infrastructure for automated testing of a multi process software product.
- Worked on Amazon Web Services (AWS) infrastructure with automation
- Automated AWS resource management using Python boto3.
- Worked on Python Open stack API's.
- Wrote Automation test cases using Selenium WebDriver using Python API.
- Installed Veritas Cluster Server on Solaris, with Oracle agent.
- Used Python scripts to update content in the database and manipulate files.
- Generated Python Django Forms to record data of online users.
- Used Python and Django creating graphics, XML processing, data exchange and business logic implementation.
- Used Pandas API to put the data as time series and tabular format for fast timestamp data manipulation and retrieval.
- Data mapping, logical data modeling, created class diagrams and ER diagrams and used SQL queries to filter data within the Oracle database.
- Performed daily administration functions, including database management, monitoring, performance tuning, backup & recovery, also general troubleshooting on multiple UNIX platforms and Windows Servers.
- Added support for Amazon AWS S3 and RDS to host static/media files and the database into Amazon Cloud.
- Developed tools using Python, Shell scripting, XML to automate tasks.
- Used HTML, CSS, JSON, and JavaScript for front end applications.
- Designed and developed the UI of the website using HTML, XHTML, AJAX, CSS, and JavaScript.
- Also, used Bootstrap as a mechanism to manage and organize the html page layout.
- Used Django configuration to manage URLs and application parameters.
- Built various graphs for business decision making using Python matplotlib library.
- Wrote and executed various MYSQL database queries from Python using Python-MYSQL connector and MySQL dB package.
- Worked with PIP in managing software packages written in Python.
- Involved in development of Web Services using SOAP for sending and getting data from the external interface in the XML format.

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- Manage, collaborate, and coordinate the work of an offshore development team.
- Updating the existing clip board to have the new features as per the client requirements.
- Responsible for debugging the project monitored on JIRA (Agile)
- Analyzed performance test requirements and developed test plans and have done debugging to understand test objective requirements.
- Performed troubleshooting, fixed, and deployed Python bug fixes of the two main applications that were a main source of data for both customers and internal customer service team.

Environment: Python, Amazon AWS S3, MySQL, HTML, Angular.js, Django, HTML5, CSS, XML, MySQL, MS SQL Server, JavaScript, AWS, Linux, Shell Scripting, AJAX.

Client: Rogers Communications Inc- Toronto, Ontario

Oct 2015

to Aug 2019

Role: Lead Python Developer

Responsibilities:

- Used Agile Methodology and SCRUM Process.
- Involved meetings with the Stakeholders, gathered requirements developed High-level design Detail design documents.
- Building and deploying the code using AWS ECS
- AWS resource management using boto3
- Designed and developed components using Python with Django framework. Implemented code in python to retrieve and manipulate data.
- Implemented database access using Django ORM.
- Used MySQL as backend database and MySQL dB of python as database connector to interact with MySQL server.
- Used Restful APIs to access data from different suppliers.
- Support the scripts configuration, testing, execution, deployment and run monitoring and metering.
- Used Python and Django creating graphics, XML processing of documents, data exchange and business logic implementation between servers.
- Used Restful API to gather network traffic data from Servers.
- Supported Apache Tomcat web server on Linux Platform.
- Developed and executed User Acceptance Testing portion of test plan.
- Debugging Software for Bugs.

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Environment: Python, Django, C++, HTML Restful API, MySQL, Shell Scripting, PL/SQL, Unix, Linux.

Client: Alberta Blue Cross, Canada
to July 2014

Aug 2012

Role: Lead Developer

Responsibilities:

- Involved in the Design, development, test, deploy and maintenance of the website.
- Used Django framework for application development.
- Used Django configuration to manage URLs and application parameters.
- Worked in Test driven development with Behave in Python.
- Used HTML5/CSS3, XML and JavaScript for UI development.
- Used Angular.js as a mechanism to manage and organize the HTML page layout.
- Implemented database access using Django ORM.
- Performed data extraction and manipulation over large relational datasets using SQL, Python, and other analytical tools.
- Used Python libraries and SQL queries/subqueries to create datasets which produced statistics, tables, figures, charts, and graphs.
- Wrote validation scripts in SQL to validate data loading.
- Followed Agile Methodology and SCRUM Process.
- Performed Unit and system testing.
- Trained users and provided production support.

Environment: Python, Django, TDD, HTML5, CSS3, JavaScript, Angular.JS, JSON, SQL, Agile and Windows.

Client: Rogers Communications Inc-Toronto, Ontario
2012

Jul 2011 to Aug

Role: Senior Software Engineer

Responsibilities:

- Wrote Python scripts to XML documents and load the data in the database.
- Designed and developed application front-end GUI using JSP, HTML, JavaScript, CSS, Ajax.
- Designed controller and business logic using Spring MVC module.

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- Developed forms using HTML and performing client-side validations using JavaScript.
- Extensively developed stored procedures, triggers, functions and packages in oracle SQL, PL/SQL.
- Utilized Python in the handling of all the hits on Django, and other applications.
- Implemented SOAP using web services to interact with various devices to pull real-time data on the network.
- Loading, analyzing, and extracting data to and from Oracle Database with Python.
- Cleansing data generated from weblogs with automated scripts in Python.
- Using Mongo DB-NoSQL database for storing the information.
- Experience in writing complex queries to retrieve the data from MySQL using aggregation.
- Used GIT repository for software configuration management and version control.

Environment: Django, Python, Waterfall, JavaScript, Mongo DB, XML, SOAP based web services, Apache Web Server, Hibernate ORM, Tomcat.

Client: Informatica -Redwood City, CA

Oct 2008

to Apr 2011

Role: Team Lead

Responsibilities:

- Reviewed Business/Functional requirements and technical specifications of the application and developed the test cases.
- Developed code using Java and C++ for “Data masking Client and server-side applications “
- Interacted with Business users and technical team in providing Review comments and make sure comments.
- Responsible for creating and updating the Feature plan, strategy, and review DDD with the team.
- Developed Masking algorithms using C++ for Data masking Operation using masking rules defined by business.
- Verifying ETL for Masking transformation and validation ETL masking as per ETL Data masking rules
- Performed unit testing and validating masking and Cryptography rules for the masked data.
- Build run on Linux and Windows and Code check-in in Linux Systems
- Debug C++ coding using Firebug.
- Performed data masking and cryptography testing ensure masking rules applied.
- Developed code using VIM editor in Linux.
- Used Clear Quest for CRs, Track defects and known issues in the application.

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- Performed code analysis using Find Bugs
- Used V-model and Agile Iterative SDLC models for the software development Life Cycle and Testing methodologies.

Client: Motorola Solutions -Schaumburg, Illinois

May 2006 to

Sep 2008

Role: Senior Software Engineer

Responsibilities:

- Analyzing the Business Requirements and Functional Requirements.
- Developed code using Java for UI Elements
- Involved in Code inspection with the peers and suggesting the effective methods for the logic to achieve performance and quality.
- code analysis using Find Bugs for Java applications.
- Performed unit testing.
- Used V-Model and Agile model for the software development Life Cycle and Testing methodologies.

Client: Micro muse-London, UK

Jun 2005

to Apr 2006

Role: Software Engineer

Responsibilities:

- Involved in designing, coding and system testing of the application.
- Coding using C & C++, Rules files.
- Debug using Firebug.
- Performed Querying using TOAD.
- Performed unit testing and integration testing.
- Involved in meetings to review product development and Issues Related with Team Leads.
- Used Waterfall model for the software development Life Cycle and Testing methodologies.