

# Jency Francis

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## PROFESSIONAL SUMMARY

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Around 8+ years of experience as a Python Full stack Developer, proficient coder in multiple languages, and experience in Design, Development, and Implementation of Python, Django, Flask, Pyramid, and client-server technologies-based applications, RESTful services on AWS, Azure, GCP various web-based, Enterprise, Client/Server Distributed applications using Python, Django, Flask Pytorch and Node.js, Angular.js, DOJO, jQuery.

- Good experience working with Python packages like NumPy, pandas, SciPy, requests, and PyTorch, enabling efficient data manipulation, analysis, and machine learning model development.
- Developed test automation framework scripts using python selenium WebDriver.
- Applied Agile methodologies and participated in Scrum meetings to enhance project management and delivery.
- Ensured robust and reliable application performance with strong Python development skills under Linux OS (Ubuntu).
- Conducted thorough unit testing, integration testing, and regression testing to ensure high-quality, bug-free software releases.
- Utilized Django, Flask, Spring Boot, and Spring JDBC to build scalable and secure web applications.
- Created SQL objects such as Tables, Stored Procedures, Views, Indexes, Triggers, Cursors, and Functions, optimizing data storage and retrieval processes.
- Managed and deployed cloud-based applications effectively with hands-on experience in AWS resources like IAM, EC2, S3, and Security Groups.
- Developed user-friendly web applications using React JS, enhancing the overall user experience.
- Improved database operations by writing complex SQL queries, Subqueries, Stored Procedures, Triggers, and Cursors.
- Designed and maintained databases using Python, and developed Python-based APIs with SQLAlchemy and PostgreSQL, streamlining data access and manipulation.
- Supported efficient application development and deployment by installing packages using Python pip and easy\_install.
- Designed and implemented microservices architecture, improving scalability and maintainability of applications.

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript

**ETL Tools:** Ab Initio, Data Stage

**Operating System:** Microsoft Windows 98/2000/NT/XP, Linux, Unix

**Frameworks:** Django, Flask, Angular, Node.js, Express.js, Spring Boot, .NET, .NET Core, Pyspark

**Development:** JavaScript, TypeScript, HTML, CSS, DOM, AJAX, Bootstrap

**Databases:** Teradata 12 14, Oracle, SQL Server, Netezza, MySQL, MongoDB

**Version Control:** Git, GitLab, GitHub, Bitbucket, Maven

**Cloud Computing:** Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform, Databricks

**Defect Tracking Tool:** Jira, HP Quality Center

**Software Development Methodologies:** Agile, Waterfall

**Visualization tools:** Tableau, PowerBI, Sigma computing

## WORK EXPERIENCE

**Podscribe**  
**Software Data Engineer**

**Sunnyvale, CA**  
**Aug 2023 - Present**

**Description:** At Podscribe, I led the creation of an interactive dashboard, significantly improving user engagement. I automated data workflows, handled data processing, and developed APIs with thorough testing to ensure reliability. By leveraging NLP techniques, I improved the accuracy of ad detection, enhancing decision-making processes. Additionally, I optimized database performance, streamlined deployment pipelines, and developed tools to automate financial services.

- Spearheaded an agile web development environment on complex Typescript, React frontend, and Node.js Express backend to provide advertisers with an analytic dashboard elevating user engagement by 45%.
- Integrated automation test in continuous integration tools Jenkins for running the script overnight.
- Utilized Tableau for advanced data visualization, and conducted performance benchmarking using Pivot tables to identify trends conveying KPI(sales, profit) resulting in a 12% revenue increase and directly impacting business outcomes.
- Took ownership of end-to-end automation, understood data requirements from business analysts and product management, defined mapping, and implemented data pipelines.
- Managed data processing tasks in a high-paced startup environment using Kafka, ClickHouse and Python.
- Implemented RESTful API services and performed unit testing with 100% code coverage.
- Collect, Extract, and organize data for creating an ML model on the dataset for text classification by applying NLP techniques to enhance ad detection accuracy, enhancing stakeholders' decision-making process by 30%.
- Optimized queries and workload in a fast paced Ad-tech environment with SQL by implementing caching and tuning the database to reduce the workload on data warehouses.
- Automated over 60% of the deployment pipeline through Docker, Kubernetes, and GitHub Actions for CI/CD, achieving efficient code deployment on AWS with enhanced fault tolerance.
- Developed a React web application and AWS configuration and deployment of an internal tool for automated advertiser billing streamlining financial services.
- Leveraged Git for codebase collaboration. Slack, and Jira to coordinate development efforts within cross-functional teams.
- Implemented Airflow or other orchestration programs and execution programs in Python, Jupyter Notebooks, and/or Docker containers
- Designed JSON schemas conforming to the aggregated structure of the input Ad transcript dataset.
- Developed and maintained ETL processes to efficiently move data between systems, resulting in a 45% reduction in data processing time and improved data accuracy.

### **Kafka with data analytics:**

Ingested data streams from various sources into Kafka topics. Wrote Python scripts to consume data from Kafka, perform necessary transformations, and prepare it for storage. Stored processed data efficiently in ClickHouse for further analysis and querying. Validated structured and unstructured datasets from various data sources and prepared it for ingestion. Implemented complex data mapping and transformation according to technical, business, and operational requirements for all data feeds.

**Kubernetes orchestration:**

Containerized microservices architecture using Docker and Kubernetes that ensures efficient scaling and management of resources. Administrated Cloud infrastructure configuring VPC and implementing Infrastructure as a Code (IaaS) approach to the key services.

**Franklin Templeton Investments  
Python Developer**

**San Mateo, CA  
May 2022 - Aug 2023**

**Description:** I designed and developed comprehensive software solutions for Portfolio Analytics and Competitor Profile Library tools, significantly enhancing the Portfolio Solutions group's efficiency. I collaborated with cross-functional teams to implement full-stack applications using React, Next.js, Python, and MongoDB. By optimizing application performance and ensuring high code quality through rigorous testing and continuous integration, I improved the reliability and scalability of digital solutions.

- Integrated Jenkins with Docker container using Cloudbees Docker pipeline plugin and provisioned the EC2 instance using Amazon EC2 plugin.
- Participated in sprint planning, release planning, and prioritization of work on the platform.
- Hands-on development, data modeling, code quality, static code analysis, unit testing, design and code reviews, continuous integration, release management, performance tuning and execution.
- Updated test automation tools regularly to ensure accuracy and usefulness.
- Worked with product owners to design and develop software solutions/interfaces to meet business needs and assist in managing the product back.
- Developed multi-threaded stand-alone app in Python, to view Circuit parameters and performance. • Worked with a team of developers on Python applications for RISK management.
- Developed web applications in Django Framework's model view control (MVC) architecture and manipulated databases by using Django database API along with MySQL.
- Created a Python, Django web-based application using Python scripting for data processing and MySQL for database, HTML5, CSS, and JQuery for data visualization.
- Developed entire backend modules using Python on Django Web Framework. Deployed Splunk Enterprise on AWS to gain real-time visibility across AWS and the entire IT environment.
- Worked in an agile development environment. Leveraged GraphQL subscriptions for real-time data updates, enhancing the user experience in applications.
- Created multiple Python and UNIX shell Scripts for various application-level tasks.
- Designed and implemented GraphQL schemas and resolvers to facilitate efficient data fetching and manipulation on the server side.
- Developed weekly, and monthly nightly job processes through UNIX shell scripting. Led the debugging and troubleshooting of the web application.
- Participated in the entire lifecycle of the projects including Design, Development, Deployment, Testing, and Implementation and support.
- Designed the architecture of the hardware environments and methodology of the code.
- Experience in creating builds, Staging, and deploying Software Content across multiple environments (DEV, QA, Demo, Test, Staging, UAT, and Prod).

- Lead design and development of RTDE (Real-time Data Exchange) CDM and Mulesoft ESB integrating ADP tax reporting system with thousands of Federal, State and Local tax agencies nationwide, transacting in excess of a trillion dollars of payroll taxes on an annual basis
- Designed and developed horizontally scalable APIs using Django.
- Using Amazon EC2 command line interface along with Bash/Python to automate repetitive work. • Worked with View Sets in Django-REST framework for providing web services and consumed web services performing CRUD operations.
- Collaborated with frontend teams to integrate TypeScript into the development stack, ensuring a seamless transition and consistent coding standards.
- Implemented data validation and transformation logic in TypeScript, ensuring the integrity and accuracy of data exchanged through GraphQL APIs.

### **Full Stack Development:**

I led the development of Portfolio Analytics and Competitor Profile Library tools, employing React, Next.js, Python, and MongoDB.

### **Jenkins with Docker:**

I integrated Jenkins with Docker for automated deployment and utilized Django for creating API development, ensuring efficient workflow management by collaborating with cross functional teams.

### **LOWES Python Developer**

**Houston, TX  
Jan 2020 - May 2022**

**Description:** As a Python Full Stack Engineer at Lowe's Store Selling platforms, I spearheaded the design, development, and testing of front-end and back-end components, revolutionizing the in-store sales experience for associates. Leveraging technologies like Node.js, Spring Boot, Python, and Kubernetes, I built robust backend services, deployed applications, and managed data. Through collaborative efforts with stakeholders, I delivered well-architected software solutions, focusing on code quality and adherence to architectural standards. Additionally, I provided mentorship to junior developers and facilitated smooth project execution across teams.

- Build backend services to support the UI applications using technologies and languages including but not limited to: Node.js, Fastify, Express, Java, Micronaut, Springboot, Python, MongoDB, Elasticsearch, Postgresql, Kafka.
- Developed Front-End pages and components with exceedingly clean, semantic markup, using technologies including HTML, CSS, Bootstrap, JavaScript, jQuery, jQuery UI, and other tools.
- Worked in an agile environment - applied scrum methodologies and engaged in weekly sprints with presentations to mentors and other teams for feedback.
- Deployed the applications to Lowe's hosted data centers or the cloud using technologies and languages including but not limited to: Docker, Kubernetes, Google Cloud Platform
- Designed and developed the front-end application and user interactive web pages using web technologies CSS, React JS, and JavaScript.

- Independently wrote high quality, maintainable, and robust code by building adequate test suites (like Unit, Integration, Performance, Chaos testing, etc.) and observability framework (like Alerts, Metric Dashboards, Logging and reliability runbooks, etc.)
- Involved in the design and development of single-page applications for web pages and mobile applications using AngularJS.
- Created custom user with overriding key field and adding more fields other than that provided by the Django out-of-box features.
- Developed PL/SQL stored procedures for data migration and database upgrade from Oracle using MYSQL.
- Using Bash and Python including Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs.
- Used GitHub for Python source code version control, Jenkins for automating the build of Docker containers, and deploying in Mesos, Aws S3. Involved in Developing a Restful API service using the Python Flask framework.
- Used Amazon Redshift to retrieve data faster by writing complex analytic queries.
- Used AWS Athena to query the data on top s3 bucket (files inbound) which helps the business people for data analysis.

**Fidelity Investments**  
**Data Analyst**

**Bengaluru, IN**  
**July 2016 - Nov 2019**

**Description:** As a Senior Data Analyst at Fidelity Investments, I drove strategic decision-making for our personalized planning and advice platform. My responsibilities include conducting in-depth data analysis, identifying trends, and collaborating with cross-functional teams to optimize platform performance. I also developed reports and dashboards, troubleshoot data issues, and ensure compliance with regulatory requirements, ultimately improving the financial well-being of our clients.

- Created database structure & logic to streamline stories and discussions on the site, leading to a reach of 350 new stories in 3 quarters.
- Consumed APIS and used Python requests to read JSON reports and file automatic bugs for intermittent tests.
- Developed the applications using the Django MTV framework which is based on a model template view design pattern.
- Extensively used Django technologies, which include forms, and templates for communication with databases in different forms.
- Installation, configuration, integration, tuning, backup, crash recovery, upgrades, patching, monitoring system performance, system and network security, and troubleshooting of Linux/Unix servers.
- Involved in Unit Testing, Integration Testing, and Regression Testing regularly to improve performance of the application.
- Extensively used interceptors, validators, and actions using the Django framework.
- Used RESTful methodologies in Angular page with Web API and implemented Angular 2.0 Controllers to maintain each data view Used Entity Framework to create Models and used tools to explore REST API.
- Used Restful services using Web API to get data from the server asynchronously.
- Developed ETL scripts in Python to get data from one database table and insert, and update the resultant data to another database table.
- Wrote Python scripts to parse XML documents and load the data in the database.
- Used Python and Django to interface with jQuery and manage the storage and deletion of content.
- Worked on developing a different module with Angular run on a Node.js server and some modules have been developed using Angular 2.0.

## ADDITIONAL TRAINING AND CERTIFICATIONS

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- AWS DevOps Blue/Green Pipeline on Amazon ECS
- Google Cloud Platform - Core Infrastructure
- Web Security: OAuth and OpenID Connect
- Machine Learning - Google AI
- Microsoft Azure Synapse
- DevOps Foundation: DevSecOps.

**RESEARCH:** Cloud-based Home Automation with MQTT, Energy-efficient Machine Learning Accelerators, and Cloud Computing.

## LEADERSHIP EXPERIENCE

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- ThinkAHack Hackathon with 1500+ participants completing 2 levels: Executed a UiPath Robotic Process Automation web scraping project.
- Active member of Girl Geek community, AnitaBOrg and Women in Tech to promote diversity and inclusion.
- Completed the “Amazon Alexa” workshop - 8 hours of Hands-on practice on training and developing Alexa skills.

## EDUCATION

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**KGiSL Institute Of Technology**

*Bachelor's in Computer Science: Object-oriented Design, Data Structures, Human Computer Interaction.*

**Coimbatore, IN**

*Aug 2012 - Jun 2016*