

# MANAS AGARWAL

## Full Stack Python Developer

West Haven, CT | +1(475)-355-7999 | manas.agar01@gmail.com

### SUMMARY

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- Demonstrated proficiency in Python programming, with over 3 years of hands-on experience in designing, implementing, and maintaining robust and scalable solutions across the full stack.
- Extensive experience in full-stack web development using popular **Python** frameworks such as **Django** and Flask, contributing to the creation of dynamic and responsive web applications.
- Skilled in frontend technologies including **HTML5**, **CSS3**, and **JavaScript**, with a focus on leveraging Python-based tools like Jinja for seamless integration with backend functionalities.
- Designed and implemented RESTful APIs using Python, facilitating efficient communication between the frontend and backend components of web applications.
- Proficient in database design and management using Python's SQLAlchemy and **ORM** frameworks, ensuring optimal performance and data integrity in relational databases such as **PostgreSQL** and **MySQL**.
- Experienced in containerization using Docker for packaging applications and orchestrating deployments. Utilized technologies like Kubernetes for scalable and efficient container management.
- Implemented CI/CD pipelines using tools like Jenkins or GitLab CI to automate the testing, building, and deployment processes, ensuring efficient and reliable software delivery.
- Implemented comprehensive **Unit Testing** strategies using Python testing frameworks (e.g., pytest) and proficient in debugging tools to ensure the delivery of high-quality and bug-free code.

### SKILLS

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<b>Programming Languages</b>	Python 3.x, JavaScript, C/C++, C#, PL/SQL
<b>Frameworks</b>	Django, Flask, Hadoop, Behave, Web2py, Pyramid, Bootstrap, Spark
<b>Libraries</b>	Request, Beautiful Soup, httpLib2, Jinja 2, Pandas, NumPy, Matplotlib, Pickle, PySide, SciPy, PyTables, React, Vue.js, Angular
<b>Web Technologies</b>	XML, CSS3, HTML5, DHTML, jQuery, MVC, RESTful, AJAX
<b>Cloud Technologies</b>	Microsoft Azure, AWS Services, EC2, ELB, VPC, RDS, AMI, IAM, Cloud formation, S3, Cloud watch, Lambda, Docker
<b>Databases</b>	SQL Server, MySQL, Teradata, Oracle, NoSQL
<b>Testing tools</b>	Pytest, Unit Test, ROBOT, Lettuce
<b>Operating System</b>	Linux, Unix, Windows
<b>IDEs</b>	Visual Studio, PyCharm, Eclipse, Atom, Sublime Text.
<b>Version Control/Tracking Tools</b>	Git, GitHub, Bitbucket, Jira
<b>Methodologies</b>	Agile, Scrum and Waterfall

### EXPERIENCE

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#### CVS Health, CA | Jan 2023 – Current | Full Stack Python Developer

- Gathered requirements for applications using Python, Django, Flask, Pandas, REST, and SOLR, ensuring effective development and functionality.
- Designed, implemented, tested, and maintained Azure database solutions, demonstrating strong analytical and problem-solving skills for Hadoop Data.
- Built database models, APIs, and views with Python for interactive web solutions, contributing to frontend and backend modules using Django.

- Designed ETL integration patterns with Python and PySpark, converting PowerCenter mappings to PySpark for efficient data processing.
- Reduced data transfer time by 25% through the efficient use of PySpark for transferring data from DB2 to Amazon S3.
- Applied Python packages like NumPy, Matplotlib, SciPy, Pandas, and PyTables, ensuring robust functionality in dynamic web pages.
- Created Python-based web applications for data processing using MySQL, HTML/CSS, demonstrating proficiency in full-stack development.
- Deployed WCF Service on Azure Cloud, troubleshooted ETL failures, and performed manual loads with SQL stored procedures.
- Implemented new metrics on the Mede Analytics SaaS Patient Access Analytics platform, showcasing skills in healthcare data analytics.
- Maintained a PEP-8 compliance score of 95%, ensuring high code quality and adherence to coding standards.
- Achieved a 98% code validity score through rigorous testing with PyChecker and PyLint, minimizing the risk of errors and bugs.
- Created Python-based RESTful web services for external interfaces, facilitating data exchange in JSON format for sales analysis.
- Wrote SQL stored procedures and Python scripts for data loading, contributing to effective database management and data processing.

#### **Bitinfocom Technologies, India | June 2019 – Aug 2021 | Full Stack Python Developer**

- Designed and enhanced the admin module, resolving issues and achieving milestones using Python, Django, Bootstrap, Angular, and MongoDB for development.
- Developed Django ORM queries for pre-loading data, optimizing database queries, and improving data retrieval efficiency.
- Utilized Docker and Ansible for the seamless deployment and management of project modules, ensuring efficient containerization and orchestration.
- Increased user engagement by 15% through the implementation of JavaScript for data validations and improved user interface functionality.
- Developed user-friendly website interfaces with Django view controllers and templates, ensuring a seamless and intuitive user experience.
- Managed load balancing between multiple containers using NGINX, optimizing performance and resource utilization.
- Automated MySQL container deployment in Docker using Python, establishing efficient container monitoring and management.
- Achieved a 25% improvement in user satisfaction by creating a Single Page Application (SPA) using AngularJS for the delivery driver application.
- Employed the BeautifulSoup Python library for web scraping, extracting data to build informative graphs and enhance project insights.
- Uploaded the admin module on Elastic Beanstalk (EBS) and EC2, storing static files in S3 on the Amazon cloud for accessibility.

## **EDUCATION**

**Master of Science in Computer Science** | University of New Haven, West Haven, CT, USA

**Bachelor in Technology in Computer Science** | Rajkumar Goel Institute of Technology, UP, India