

VAMSHI POLISHETTI

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2+ Years Experience | 150+ JIRA Issues Resolved | 3+ Major Projects Delivered | 95% Client Satisfaction

Summary

Software Engineer with 2+ years of experience in backend development using the **Python Stack (FastAPI, Flask)**. Expert in architecting scalable RESTful APIs, optimizing high-traffic database performance via **Connection Pooling**, and deploying robust cloud infrastructure on **AWS**. Specialized in asynchronous logging, secure configuration management, and messaging systems like **RabbitMQ**.

Technical Skills

- **Python Stack:** FastAPI, Flask, Django (Intermediate), SQLAlchemy ORM, Pydantic, Connection Pooling, Async Logging.
- **Database & Search:** PostgreSQL, SQL Server, Elasticsearch, SQL Optimization, Stored Procedures.
- **Messaging & Security:** RabbitMQ, JWT, API-Key Auth, Secure Configuration (.env), Secrets Manager.
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, RDS, CloudWatch), Docker (Basic), Git, GitHub.
- **Languages:** Python (Primary), SQL (Advanced), Java (Intermediate), JavaScript (Intermediate), HTML5/CSS3 (Intermediate).
- **Tools:** Postman, Swagger/OpenAPI, SSMS, DBeaver, VS Code, PyCharm, JIRA (Agile/Scrum).

Experience

CStoreiQ

Junior Software Engineer

Feb 2024 – Present

Hyderabad, India

- Developed and maintained scalable backend services using **Python, FastAPI, and Flask**, supporting high-performance production applications in an Agile environment.
- Successfully delivered **three major API projects** for the CStoreiQ back-office platform and live data integrations.
- Designed and managed **SQLAlchemy ORM models** with SQL Server and PostgreSQL, implementing **Database Connection Pooling** to optimize utilization in high-traffic environments.
- Implemented secure authentication using **JWT and API-Key** based access control with **.env Configuration Management** for secure cross-stage deployment.
- Resolved **150+ JIRA issues**, covering critical bugs, performance optimizations, and feature enhancements.
- Developed and optimized complex **SQL Stored Procedures**, significantly improving API response times.
- Implemented asynchronous workflows using **RabbitMQ** and built **Async Logging Systems** for non-blocking application monitoring and improved debugging.
- Integrated **Elasticsearch** for advanced search and monitoring; managed cloud infrastructure via **AWS (EC2, S3, Lambda, RDS)** using CloudWatch and Secrets Manager.

Projects

Fully Automated Data Synchronization Service | Python, FastAPI, SQL Server, AWS

Dec 2025

- Engineered a zero-touch automation service utilizing **FastAPI** and **Boto3** to orchestrate data transfers between AWS S3 and external REST endpoints, achieving a **97% success rate**.
- Eliminated manual intervention by implementing automated recovery logic and **Async Logging Systems** for real-time monitoring of unattended background processes.
- Secured data transmission pipelines using **JWT and API-Key** authentication, ensuring end-to-end encryption and authorized access for high-frequency data ingestion.
- Implemented dynamic directory mapping and local caching to optimize performance, reducing redundant S3 egress calls and minimizing operational costs.

COVID-19 Detection via Chest X-Rays | Python, ResNet-50, Flask

Jun 2022 – Sept 2022

- Developed a COVID-19 Detection Web App with **95% accuracy** using ResNet-50; reduced processing time to 3-5s.

Education

Telangana University

Master of Computer Applications (MCA) | **GPA: 8.87 / 10.0**

Sept 2022

Nizamabad, India

Certifications & Best Practices

HackerRank: SQL (Advanced), Rest API (Intermediate), Python Certification.

Cloud & Other: AWS for Beginners (Great Learning), Java Development Internship (Code Clause).

Best Practices: Scalable Architecture, Secure Configuration Management, Performance Optimization, Application Monitoring.