

# JYOTHI R

## Python /Full Stack Developer | AWS | AI/ML | DevOps

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### Summary

Full Stack Developer with 3.5+ years of experience delivering scalable web applications across health insurance, commission processing, and geospatial data domains. Proficient in Python, Java, JavaScript, Django, Flask, React.js, PostgreSQL, MongoDB, Docker, Kubernetes, and CI/CD workflows, with additional skills in cloud platforms, machine learning fundamentals, and API development for secure, high-performance solutions.

### Education

University of North Texas - Denton

**Master of Science in Information Technology (CGPA: 3.66/4)**

Aug 2023 – May 2025

### Technical Skills

**Programming Languages:** Python (NumPy, Pandas, Matplotlib), Java, C, C++, Golang, JavaScript, HTML, CSS

**Framework & Libraries:** Django, Flask, React.js, Angular, Django REST Framework, Flask-RESTful, Bootstrap, MVC, RESTful Microservices

**Cloud & DevOps:** AWS (EC2, S3, SageMaker), GCP, Azure, Docker, Kubernetes, Apache Kafka, CI/CD (GitHub Actions, Jenkins, Jira), Git, GitHub

**Machine Learning Skills:** Supervised & Unsupervised Learning, Data Preprocessing, Model Training & Evaluation, Regression & Classification, Model Performance Metrics (Accuracy, Precision, Recall, F1-Score)

**Databases:** SQL, MySQL, MongoDB, PostgreSQL, NoSQL

**Tools & Technologies:** Postman, Poetry, PyTest, unittest (Unit Testing), Selenium, Sentry, SonarQube, RESTful API

### Professional Experience

#### Python Developer – E2E Data Solutions, Florida

Dec 2024 – Present

- Designed and optimized RESTful APIs using Django and Flask, integrated with React.js frontends to enhance workflow automation for health insurance agencies, reducing API response times by 18%.
- Improved application reliability and scalability by implementing structured logging in Python, real-time error tracking with Sentry, and tuning PostgreSQL/MongoDB queries for accurate, high-performance data access under heavy workloads.
- Streamlined CI/CD and code quality by deploying Docker-based pipelines via GitHub Actions (15% faster delivery) and remediating over 80% of SonarQube issues through Python and JavaScript code refactoring.

#### Student Assistant - UNT Denton

July 2024 – Nov 2024

- Delivered comprehensive administrative, technical, and IT support to faculty, staff, and students in a high-paced university department, streamlining daily operations, improving cross-team communication, maintaining accurate digital records, and resolving hardware/software issues to reduce downtime and enhance user satisfaction.
- Collaborated with cross-functional teams to optimize departmental workflows, identifying process inefficiencies, implementing improvements to boost operational productivity, and strengthening core professional skills in communication, time management, multitasking, and proactive problem-solving.

#### Software Engineer – Sky Touch Infotech, India

May 2021 – June 2023

- Refactored and optimized performance-critical Python and JavaScript modules within Agile sprint cycles, achieving a 28% reduction in system latency and boosting application throughput and responsiveness. Enhanced backend efficiency by profiling asynchronous tasks, identifying computational bottlenecks, and implementing resource-efficient algorithms to maintain performance under heavy load.
- Architected and deployed scalable data transformation pipelines in Python, replacing legacy Java-based logic to improve geospatial map conversion precision and ensure consistent, reliable data flow between microservices and external integrations.
- Improved code quality, security, and maintainability by remediating over 90% of SonarQube-identified issues, enforcing enterprise-grade secure coding standards, and integrating RESTful Python APIs with React.js-based frontends to deliver scalable, maintainable, and user-friendly features as part of a cross-functional Scrum team.

### Projects

#### Task Management Web Application

Aug 2023 – Oct 2023

- Built a Smart Task Manager web application using Flask, Bootstrap, and custom CSS, streamlining task tracking with status-based boards and deadline alerts. Designed a scalable architecture with persistent JSON storage, improving task organization efficiency and enabling smooth migration to database-backed deployments.

#### Custom Apparel Ordering System

May 2021 – Dec 2021

- Developed a full-stack e-commerce web application for managing fan t-shirt operations using React (Vite) for the frontend and Flask for the backend. Implemented user and admin roles with secure authentication, allowing users to browse and purchase products while enabling admins to manage inventory and orders.
- Integrated SQLite for lightweight, persistent storage and used Flask-CORS and cryptography to enhance API security and cross-origin compatibility. Provided a modern, responsive UI with features like address management, order tracking, and real-time order status updates.

### Certifications

- Python for Everybody Specialization** – University of Michigan from COUSERA.
- Introduction to Cloud Computing 101** – AWS Educate
- Machine Learning Foundations** – AWS Educate