

PAMULAPATI JYOTHIKA CHOWDARY

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EDUCATION

Siddaganga Institute of Technology, Tumkur

Graduated 2024

Bachelor of Engineering in C.S.E. (Artificial Intelligence and Data Science)

SUMMARY

Software Engineer with 2+ years of experience designing scalable microservices and RESTful APIs using Python, FastAPI, and Django. Strong expertise in database optimization, cloud-native development, and CI/CD pipelines, delivering high-performance backend systems for enterprise-scale applications.

WORK EXPERIENCE

Software Engineer – Backend

June 2024 – Present

Impact Analytics

Bengaluru, Karnataka

- Designed and developed scalable microservices for **ItemSmart**, a retail planning platform supporting enterprise SKU-level inventory optimization.
- Built and optimized RESTful APIs using **Python, FastAPI, and PostgreSQL**, leveraging **Redis caching** and **Kubernetes deployment**, reducing response times by **35%** and improving query performance.
- Implemented caching, indexing, and database tuning strategies to enable real-time analytics across **10,000+ SKUs**.
- Collaborated in Agile sprints with DevOps, QA, and frontend teams to deliver features with **95%+ test coverage**.
- Integrated CI/CD pipelines using **Docker and GitHub Actions**, reducing release cycles by **40%**.

Software Developer Intern

October 2023 – January 2024

Dell Technologies

Hybrid

- Led end-to-end development of **KRISHIMITRA**, a data-driven analytics platform designed to support farmers.
- Developed backend services using **Python and Flask** to integrate machine learning models, improving crop identification accuracy by **20%**.
- Implemented secure authentication using **Twilio APIs** and government ID-based verification, improving platform security by **30%**.

PROJECTS

BlueCollarConnect | Python, Django, HTML, CSS, JavaScript, Bootstrap

- Designed and developed a full-stack Django-based web platform, contributing **60%** of the overall implementation across backend and frontend.
- Implemented backend features including authentication, role-based access control, data models, and RESTful CRUD APIs using **Python and Django**.
- Built responsive frontend interfaces using HTML, CSS, JavaScript, and Bootstrap to ensure smooth user interaction.

ACHIEVEMENTS

- Secured **1st place** in the WieCode Hackathon.
- Led the state handball team at the state championships.

SKILLS

Languages: Python, JavaScript, Java, C++, HTML, CSS

Frameworks & APIs: FastAPI, Flask, Django, REST APIs

Databases & Messaging: PostgreSQL, SQL, NoSQL, Redis

AI & Emerging Tech: LLMs, Agentic AI, API-based model integration

Cloud & DevOps: AWS (EC2, S3, RDS), Docker, Kubernetes, GitHub Actions

Engineering Practices: OOPs, System Design, Microservices, Agile, Git, Postman, Bitbucket