Priyanka V

1/170, Sai Nagar, Virugambakkam, Chennai - 600092
+91 75501 99253 venkateshpriyanka05@gmail.com linkedin.com github.com

Profile Summary

Computer Science student focused on backend and full-stack development, experienced in building scalable applications using modern frameworks and cloud-native technologies.

Education

Sri Sairam Engineering College **Sep 2023 – June 2027**
Bachelor of Engineering (B.E.) in Computer Science and Engineering — GPA: 8.71/10.0 *Chennai, Tamil Nadu*

Chinmaya Vidyalaya Senior Secondary School **June 2009 – March 2023**
Higher Secondary Education (CBSE) — Percentage: 95 *Chennai, Tamil Nadu*

Technical Skills

Programming Languages: Python, C, Java, JavaScript
Web Development: HTML, CSS, JavaScript, React, Next.js, Node.js, FastAPI
DevOps & Cloud Tools: Docker, Kubernetes, GitHub Actions, Render, Netlify
Developer Tools & Databases: Git, Postman API, VS Code, Google Colab, MongoDB, MySQL, PostgreSQL, Firebase
UI/UX Design: Prototyping, Wireframing, User-Centered Design Principles
Soft Skills: Leadership, Communication, Teamwork, Problem Solving

Experience

Sri Sairam Engineering College – Incubation Centre **Aug 2025 – Sep 2025**
Web Development Intern *Chennai, Tamil Nadu*

- Built backend modules for student management, mentor actions, certificates, and attendance using FastAPI.
- Designed PostgreSQL schema and deployed services on AWS with Kubernetes for scalable orchestration.
- Automated CI/CD pipelines using GitHub Actions to streamline deployments.

InternPe **Feb 2025**
Web Development Intern *Chennai, Tamil Nadu*

- Built web applications (calculator, to-do list, e-commerce) using React and core web technologies, focusing on UI/UX and accessibility.

Projects

AI & IoT Storm Overflow Prediction

- Developing a real-time stormwater monitoring system using ultrasonic and flow sensors to predict overflow risks in drainage networks.
- Implemented LSTM and XGBoost models with cloud pipelines for forecasting and geospatial visualization using QGIS.

Incubation Management System – Backend

- Designed and implemented FastAPI REST modules for student onboarding, mentor workflows, certificates, and attendance tracking.
- Engineered PostgreSQL schema, deployed on AWS with Kubernetes, and integrated CI/CD via GitHub Actions.

Eye-Care Beneficiary Management System

- Built an MVP to manage beneficiaries, donor coordination, inventory alerts, and program analytics for an eye-care nonprofit.
- Implemented an AI-powered chatbot for quick beneficiary lookup, data access, and automated report generation.

AI-Driven Security Automation for Microservices

- Engineered an AI-assisted security analyzer integrating LLMs and scanners (Trivy, KubeLinter) to detect microservice and Kubernetes vulnerabilities.
- Automated SBOM generation, prioritized remediation insights, and CI/CD security checks.

Achievements

- **JPMorgan Chase Code for Good Hackathon Winner** — selected from 50,000+ applicants; built an NGO-focused solution in a 24-hour hackathon.
- **Finalist – Project Deep Blue Hackathon (India)** — developed a solution for real-world problem statements in a national-level beginner hackathon.