Prashanth Kumar Kavuri

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PROFESSIONAL SUMMARY

Computer Science & Engineering student specializing in **Java, Spring Boot, and PostgreSQL** with hands-on experience in building **full-stack applications** and secure **REST APIs**. Possesses a strong foundation in **data structures and algorithms**, **object-oriented programming**, **database systems**, and **software engineering**.

WORK EXPERIENCE

Java Full Stack Developer Intern | Internship — Jun 2026 - Aug 2026

Infosys Springboard – Virtual Internship 7.0

- Implemented **Role-Based Access Control (RBAC)** and **JWT authentication** to secure application access for over **1,000 active users**.
- Performed rigorous testing and validation across **20+ REST APIs**, significantly enhancing overall API reliability, system stability, and integration test coverage.
- Developed and delivered **15+ core backend features** and services, seamlessly integrating **PostgreSQL** to drive efficient, database-backed application workflows.
- Collaborated in Agile sprints using **Git** for version control, debugging, and code integration, contributing to reliable delivery of full-stack application features.

Technologies : *Spring Boot, React, PostgreSQL, JWT, JAVA*

PROJECTS

Quantum-Inspired Intelligent Traffic Route Optimization | Github Website — Sep 2026 - Oct 2026

- Developed a full-stack traffic route optimization platform using **React.js, Python, FastAPI, and OpenStreetMap** across **5+ core modules**.
- Engineered multi-objective routing using **3 algorithms** — Dijkstra, A*, and QIGA — optimizing travel time, congestion, distance, and emissions.
- Integrated traffic simulation and **XGBoost-based congestion prediction** to evaluate adaptive routes under multiple traffic conditions.

Technologies & Tools : *Python, FastAPI, React.js, OpenStreetMap, PostgreSQL, Docker, Git*

Cloud Security Monitoring System | Github Website — Jun 2026 - Aug 2026

- Architected a security monitoring platform using a **2-service Spring Boot and React architecture** for continuous asset and security monitoring.
- Secured **20+ REST APIs** with role-based access control and JWT authentication using Spring Security.
- Established incident management and audit logging to track security events, vulnerabilities, and system activities.

Technologies & Tools : *Java, Spring Boot, PostgreSQL, MySQL, REST APIs, JWT*

SKILLS

Programming Languages :	Java, SQL, Python, JavaScript
Frameworks & Libraries :	React.js, HTML5, CSS3, REST API Integration, FastAPI
Backend :	Spring Boot, Spring Security
Databases :	MySQL, PostgreSQL
Tools & Platforms :	Git, GitHub, VS Code, Docker

EDUCATION

Marri Laxman Reddy Institute of Technology and Management | Hyderabad, India — Sep 2023 - May 2027

Bachelor of Technology in Computer Science and Engineering (AI & ML) — *CGPA : 8.2/10*

AWARDS & ACHIEVEMENTS

- **Google Student Ambassador** — Appointed to represent Google initiatives and support student engagement within the campus community.
- **Full Stack Development Intern at VELOOP REWARDS** — Contributed to website development tasks, gaining practical exposure to GPT platforms, product research, and reward-based technology.
- **College-Level Hackathon** — Collaborated with a team to develop a software solution, applying programming, problem-solving, and teamwork skills to address a practical challenge.

CERTIFICATIONS

- **Pearson MePro** (2026)
- **NPTEL** – Programming in Java (2025)
- **AWS Academy** – Cloud Foundations (2025)