

SATHWIK LINGA RAJU UPPU

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🌐 <https://github.com/sathwik69621>

portfolio: <https://sathwik69621.github.io/>

SUMMARY

Java Backend Developer with strong expertise in Spring Boot, REST API development, and scalable backend systems. Experienced in building and deploying production-ready applications with secure authentication (Spring Security, BCrypt, OTP) and relational databases like MySQL. Proven ability to design efficient backend architectures and handle real-time data processing. Experienced in Backend Development, REST API Development, and building scalable applications using Spring Boot. Seeking entry-level Software Engineer / Backend Developer roles.

TECHNICAL SKILLS

Programming Languages:	Java, Python, JavaScript, CSS, HTML
Backend:	Spring Boot, Spring Security, REST APIs, JPA/Hibernate, Microservices (Basics)
Databases:	MySQL, H2
Core Computer Science:	Object-Oriented Programming (OOP), Software Development Life Cycle (SDLC), Data Structures and Algorithms, MVC Architecture
Tools:	Git, GitHub, Github Pages, Postman, VS Code, Render, Aiven, Netlify
Other:	Authentication & Authorization, API Design, Backend Optimization

PROJECTS

Family Tree Web Application | Full-Stack Development | family-tree-web-l7yh.onrender.com

Java 21, Spring Boot, Spring Security, MySQL, HTML, CSS, JavaScript

- Developed and deployed a full-stack web application used by 80+ users to visualize family relationships dynamically.
- Implemented secure authentication using Spring Security, BCrypt password hashing, and email OTP verification.
- Designed and developed REST APIs for user management and relationship operations using Spring Boot.
- Modeled relational data in MySQL to ensure efficient data storage and retrieval.
- Ensured secure login and data protection through proper backend validation mechanisms.

Machine Events System | Backend Development | github.com/sathwik69621/Machine-Events-Backend-System

Java, Spring Boot, JPA/Hibernate, H2 Database, REST APIs

- Built a backend event-processing system to ingest, validate, and manage high-frequency machine event data.
- Developed REST APIs to generate real-time analytics including defect rates, event durations, and throughput.
- Implemented data validation and deduplication logic to maintain data integrity.
- Designed scalable backend architecture to handle concurrent event processing efficiently.

WORK EXPERIENCE

Java Development Intern — TechnoHacks

Jan 2026 – Feb 2026 | Virtual

- Built Java programs applying OOP, Collections Framework, and file I/O to automate practical business logic tasks.
- Identified and resolved logic bugs, improving code correctness and reducing redundant operations across multiple modules
- Structured projects using layered architecture and clean code practices, improving maintainability and readability.

AI & Prompt Engineering Intern — VaultofCodes

Mar 2025 – Apr 2025 | Virtual

- Designed effective AI prompts to improve response quality of generative models.
- Architected a prompt-based story generation system capable of generating dynamic narratives based on user input.
- Gained practical experience with prompt engineering techniques and AI model behavior optimization.

EDUCATION

B.Tech, CSM (AI & ML) — MVGR College of Engineering, Vizianagaram, Andhra pradesh

Oct 2022 – Apr 2026 | CGPA: 7.66

Intermediate, MPC — Sri Chaitanya Junior College, Tuni, Andhra pradesh

Aug 2020 – Jun 2022 | 88.9%

SSC — Bhashyam High School, Tuni, Andhra pradesh

Jun 2019 – Mar 2020 | 88.33%

CERTIFICATES

- **Java Full Stack Development** — Wipro Talentnext
- **REST API Development** — Crio.Do
- **Java Programming** — Coursera
- **SQL (Basic)** — HackerRank
- **Software Engineering Job Simulation** — JP Morgan Chase & Co
- **IT Essentials** — Cisco Networking Academy
- **Salesforce Virtual Internship** — Salesforce