

JAI PRAKASH

Web Developer

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EDUCATION

SRM Institute of Science and Technology, Chennai, Tamil Nadu

2024 – 2028

B.Tech in Computer Science and Engineering (Software Engineering)

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems

TECHNICAL SKILLS

Frontend: HTML5, CSS3, JavaScript, React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, Spring Boot (basic)

Databases: MySQL, MongoDB

Tools: Git, GitHub, VS Code, Firebase

Programming Languages: Java, JavaScript, Python

PROJECTS

Nami Assistant – Desktop Automation Tool

Python, NLP, Shell Scripting

- Built a local desktop assistant that converts natural language commands into predefined system actions.
- Implemented intent classification to map user input to allowed command categories.
- Restricted execution to a controlled command registry to avoid arbitrary shell injection.
- Designed a modular plugin-based architecture for adding new automation workflows safely.

ResQlinK – Offline Emergency Communication App

React Native, Bluetooth Low Energy (BLE), Firebase

- Designed an offline-first mobile system for SOS alerts and text messaging without internet access.
- Used BLE-based peer discovery and message flooding with TTL to propagate alerts across nearby devices.
- Prevented message loops by assigning unique message IDs and maintaining a local seen-message cache.
- Implemented store-and-forward logic to handle intermittent connectivity and device drop-offs.
- Synced critical alerts to Firebase when internet became available for persistence and audit.
- Finalist at SEISMO Hackathon after evaluation on reliability and disaster usability.

CitySafari – Local Discovery Web Application

React.js, Spring Boot, MySQL

- Built a full-stack web application focused on fast local discovery rather than generic listings.
- Designed REST APIs with pagination and query filtering to control payload size and response time.
- Applied basic indexing strategies in MySQL to optimize frequent location-based queries.
- Handled third-party API failures using fallback responses and proper HTTP error codes.
- Integrated OpenWeather and Overpass APIs with rate-limit awareness and timeout handling.

ACHIEVEMENTS

- Earned Elite + Gold certification in Programming in Java (NPTEL) with a score of 96%, ranking among top performers nationally.
- Secured 13th position out of 150+ teams at SEISMO Hackathon 1.0, qualifying for the finals with an offline emergency communication system.
- Achieved 3rd Place at ECOHACK Ideathon for proposing a sustainable technology solution.

CERTIFICATIONS

- Programming in Java – NPTEL
- JavaScript Essentials 1 – Cisco Networking Academy
- React.js – The Complete Course – Udemy
- Fundamentals of Object-Oriented Programming – NPTEL
- Introduction to Cloud Computing – IBM

Elite + Gold (96%)