

MOHANA PRASATH R

mr0928@srmist.edu.in | +91 78453 79301 | mohanaprasath.in | LinkedIn | github.com/MohanaPrasathR

Summary

Computer Science undergraduate (CGPA 9.29, 2027 batch) who designs, builds, tests and deploys full-stack applications in **Java (Spring Boot)**, **Python** and **Node.js**, with hands-on experience across the software development life cycle and a strong base in data structures, OOP and databases. Open to working from any location in India.

Education

SRM Institute of Science & Technology, Kattankulathur

B.Tech in Computer Science and Engineering

2023 – 2027

CGPA: 9.29 / 10

Technical Skills

Languages: Java, Python, C++, SQL, JavaScript, TypeScript
Backend: Spring Boot, Spring Data JPA, Hibernate, Node.js, Express.js, Flask, REST APIs
Frontend: Angular, React.js, Next.js, HTML5, CSS
Databases: MySQL, MongoDB, H2
Testing & Tools: JUnit 5, Mockito, MockMvc, Selenium WebDriver, Git, GitHub, Maven, Postman, Swagger/OpenAPI, Vercel
Core Concepts: Data Structures & Algorithms, OOP, DBMS, Operating Systems, SDLC, Software Testing, Debugging

Experience

TVK Technologies

Dec 2025 – Jan 2026

Angular UI Developer Intern

- Built reusable Angular components with routing, data binding and services for application state, following a component-driven front-end architecture during a 30-day skill-based internship.
- Debugged UI defects with mentors, refactored code for readability and maintainability, and delivered features against real project timelines.

Projects

StayPulse: Hotel Revenue Intelligence Platform | *Java, Spring Boot, MySQL, Angular, Python*

- Designed and built a full-stack application — a Spring Boot 3 REST API with an Angular dashboard — to manage hotel bookings and analyze revenue by hotel, month and booking status.
- Implemented persistence with Spring Data JPA/Hibernate on MySQL, with input validation, standardized RFC 7807 errors, Swagger docs and **29 automated tests** (JUnit 5, Mockito, MockMvc).
- Added a Python (FastAPI, scikit-learn) service for revenue forecasting, anomaly detection and cancellation risk (**2.6% MAPE** backtest on simulated data vs. 13.5% baseline).

MediTriage: AI Symptom Triage & Live Clinic Queue | *Python, Flask, SQL, scikit-learn*

- Built passwordless **email OTP login** with hashed one-time codes, expiry, attempt limits, rate limiting and CSRF protection, plus role-based access for patients and doctors.
- Parsed free-text symptoms with NLP (negation, typo correction) into a Random Forest classifier (99% top-3 accuracy on held-out synthetic cases); live queue updates via Server-Sent Events; 33 pytest tests.

ArenaPass: Stadium Ticketing | *Next.js, TypeScript, MySQL*

- Secured a ticketing app with bcrypt password hashing, HMAC-signed session cookies and server-side role checks; prevented overselling with transactional capacity checks that lock the event row.

Cache Memory Simulator & Visualizer | *React, TypeScript*

- Built an interactive simulator that visualizes cache hits, misses and LRU/FIFO replacement step by step for a stream of memory addresses.

Certifications

Programming in Java – NPTEL	Dec 2024	Selenium WebDriver with Java – TAU	Aug 2026
Programming in C++ – Udemy	Apr 2024	Data Structures – Udemy	Nov 2024
MongoDB Associate Developer – MongoDB	Apr 2026	Intro to Machine Learning – NPTEL	Oct 2025

Achievements & Languages

- Winner, DEVSPARKS Online Student Hackathon** (Sparks Technologies & Sairam M-Apps Club, Nov 2025): first place in a 6-hour team hackathon.
- Languages:** English, Tamil, Hindi, Japanese (elementary)