

Aravind RK

+91 9025517279 — aravind05.rk@gmail.com — linkedin.com/in/aravindrak — Chennai, Tamil Nadu.

Education

Amrita Vishwa Vidyapeetham

B.Tech in Computer Science and Engineering — CGPA: 8.11/10

Coimbatore, Tamil Nadu

Graduation Year: 2027

Velammal Nexus

An aggregate of 89.4% in Standard 12

Chennai, Tamil Nadu

Graduated high school: 2023

Work Experience

MEAN stack developer Intern

Ideal Tech Labs

April 2026 - Present

Chennai, India

- Developing a **full-stack Quiz Application Platform using the MEAN stack**. Enabling Role-based access control, AI integrated features into it.
- Worked on company projects **DeckOptimizer (Node.js, Nginx, PM2, PostgreSQL)** and **PortEmulator (Navis N4, MongoDB CLI tools)**, performing local deployment and validation, including MongoDB (.gz) dump extraction, batch script execution, and resolving setup/documentation issues with the DevOps team.

Projects

Campus Resource Reservation and Utilization Optimization System - IntelliReserve

React, HTML, CSS, JavaScript, Node.js, Express.js, MongoDB (Mongoose), REST APIs, GitHub

Group

GitHub

- Implemented and designed **core backend logic for secure authentication and role-based access control** (Admin, Student Coordinator) using Node.js, Express, and MongoDB.
- Designed a rule-based reallocation engine that ranks alternative classrooms using a weighted scoring model combining **capacity similarity, floor distance, wing proximity, and resource utilization..**

Secure Notes

Node js, Express js, crypto modules (RSA, AES, SHA-256, Digital Signatures), MongoDB

Individual

GitHub

- Designed and implemented the **complete backend architecture for a secure application**, integrating NIST-compliant authentication with **multi-factor login**, role-based access control, **encryption**, hashing, and digital signatures.
- Developed end-to-end security workflows including **secure key management, encrypted data storage, access enforcement, and integrity verification**, ensuring a cohesive and production-oriented system design.

Event Management System in Java using Interval Tree

Java, Interval Tree, OOPs

Group

GitHub

- Built a **Java-based Event Management System** that schedules events and prevents time conflicts using an **Interval Tree**.
- Implemented simple menu-driven console application with fast event insertion, deletion, and search operations to efficiently detect overlaps before confirming a booking and time complexity of **O(log n)**.

Skills

Programming Languages Java , C , Python, SQL , HTML , CSS, JavaScript, Node JS.

Frameworks & Tools Express JS, Angular JS, VS Code, Eclipse, PyCharm.

Databases & Platforms Mongo DB, MySQL, Windows, Linux

Core Competencies Data Structures & Algorithms, System design, Full-Stack Development.

Achievements and Interest

- Google — Foundations of Cyber Security — **View Certificate**
- Google — Manage Security Risks — **View Certificate**
- Collaborated with a team to design and present IntelliReserve at **Avishkar 2026**, highlighting smart scheduling, fairness-based allocation, and AI-driven demand forecasting..