Maadesh A

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EDUCATION

Vellore Institute of Technology, Chennai — Chennai, India
B.Tech. in Electronics and Communication Engineering; CGPA: 9.16 — *Sept. 2022 – May 2026*

Christ International School - ISC — Thanjavur, India
Class XII; Percentage: 87.6% — *2022*

TECHNICAL SKILLS

Languages: C/C++, Java, JavaScript, SQL
Frameworks: React, Node.js, Express.js, Tailwind CSS
Databases: PostgreSQL, MongoDB, Firebase
Others: RESTful APIs, WebSockets, Git, GitHub

EXPERIENCE

R&D Intern – Samsung Prism — Oct. 2024 – Oct. 2025
Remote
- Worked on persistence over ORB-SLAM3 by implementing anchor saving, restoration, and object rendering for accurate 3D localization across SLAM session restarts.
- Enabled use-cases like device sleep–wake cycles in SLAM-based applications.
- GitHub Repo: ORB SLAM3 PERSISTANCE | Certificate: View

Flutter App Developer Intern – Anicha Digital Infrastructure — May 2024 – July 2024
Remote
- Built a Flutter-based app platform for driving school aggregation as part of a team project.
- Designed system architecture and implemented classes using Object-Oriented Programming principles.
- Focused on backend and system design contributions rather than UI development.
- Certificate: View

PROJECTS

Online Multiplayer Chess Application | React, Node.js, WebSockets, OOP Chess Engine — May 2025
- Developed full-stack web app with React frontend and Node.js backend using WebSockets for real-time multiplayer gameplay.
- Designed custom OOP chess engine for accurate move validation, game logic, and rules management.
- Repos: Engine, Server, Web App | Live: Web App, Server

Postgres ORM – Lightweight Recursive ORM | Node.js, PostgreSQL — Feb 2025
- Lightweight recursive ORM supporting caching, automatic class-table mapping, and relational operations.
- Features: Save/delete/query objects recursively; execute raw SQL; convert rows to objects using getInstance.
- GitHub: Repo

Attendance Monitoring Web App | Firebase, Embedded Hardware — Jan 2025
- Full-stack attendance system using Firebase for managing courses and real-time attendance.
- Integrated embedded hardware input for automated updates.
- GitHub: Repo | Live: Demo

Rat In A Maze | React, Tailwind CSS, BFS Algorithm — Dec 2024
- Interactive maze visualizer built with React and Tailwind CSS with grid-based navigation and obstacles.
- Implemented BFS algorithm for single-source shortest paths in an undirected acyclic graph.
- GitHub: Repo | Live: Demo

ACHIEVEMENTS & CERTIFICATIONS

NPTEL – Data Structures and Algorithms (Certificate)
District First: Scored 100/100 in Mathematics (ISC Class XII)
District Second: ICSE Class X Board Exams