PRAJAN KARTHIK

Chennai, Tamil Nadu, India

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Education

Amrita Vishwa Vidyapeetham,Coimbatore   **2023 – 2027**
B.Tech in Computer Science and Engineering (CGPA: 8.56)   *Tamil Nadu,India*

Srimathi Sundravalli Memorial School   **2022 – 2023**
Class XII (Percentage: 482/500)   *Tamil Nadu, India*

Skills

Languages: C, C++, Python, JavaScript, HTML, CSS

Frameworks & Libraries: React, Node.js, Express, Tailwind CSS, BootStrap CSS

Developer Tools: Git, GitHub, Docker, Visual Studio Code

Databases: MySQL, MongoDB, PostgreSQL

Projects

E-Commerce Website | *MongoDB, React, Node.js, Express, Render*
- Developed a full-stack e-commerce platform with product catalog, authentication, and cart management features.
- Built a responsive frontend using React with Chakra UI for modern, reusable components.
- Designed and implemented backend services with Express.js and MongoDB, enabling persistent data storage.
- Deployed both frontend and backend on Render for reliable cloud hosting.

Finance Tracker App | *React Native, PostgreSQL, Redis, Clerk, Render*
- Developed a cross-platform mobile application for personal finance tracking with categorized expenses and history visualization.
- Implemented secure authentication using Clerk and applied Redis-based rate limiting to manage request flow.
- Deployed backend services with PostgreSQL database on Render, ensuring persistent and reliable data storage.
- Designed intuitive mobile UI in React Native with offline-first support.

Video Game Purchase and Recommendation App | *Python, DSA (AVL Tree, Graph, Heap, Trie)*
- Designed a game search and recommendation system simulating a Steam-like library.
- Contributed optimized algorithm implementations with detailed time complexity analysis.
- Implemented a Trie Data Structure and integrated it into the search functionality for game titles.

Arduino Car Project | *C++*
- Designed and programmed a Bluetooth-controlled Arduino car using C++ concepts such as pointers, structures, arrays, and functions.
- Implemented modular motor and sensor control for directional movement and obstacle avoidance.
- Focused on structured, reusable C++ code for hardware-level programming.

Experience

Intel IoT Club   **Coimbatore**
Lead Web Developer   *Nov 2025 – Present*
- Spearheading the development of **Jobify**, a dedicated job search platform, overseeing the full-stack architecture and implementation.
- Leading the web team by conducting code reviews, mentoring contributors, and coordinating collaborative feature delivery.

MERN DevOps   *Jun 2025 – Oct 2025*
- Secured the club's website by implementing a patching a critical authentication bypass vulnerability in the admin panel and performed routine health checks.

Certifications

- **CyberSecurity Professional Certificate** – Coursera(Google)
- **Ethical Hacking** – NPTEL(IIT Kharagpur)
- **The Web Developer Bootcamp** – Udemy
- **Python**, **SQL** – HackerRank