ARUNMOZHI VARMAN K

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PROFILE:

Results-oriented B.Tech IT student with a CGPA of 8.46, skilled in full-stack development and backend APIs. Proficient in React JS, Java, Python, Prompt Engineering, and SQL, with hands-on experience in creating scalable, user-centric web applications and AI-driven solutions. Adept at developing real-time systems, implementing APIs, and integrating cloud technologies.

TECHNICAL SKILLS:

Programming Languages: Java, Python, SQL, HTML, JS, CSS.

Frameworks & Libraries: React JS, Next JS, NodeJS, Express.js, Tailwind CSS.

Tools & Technologies: Prompt Engineering, Postman, Firebase, PostgreSQL, AWS.

Design & Visualization: Figma, Adobe Illustrator, RIVE, Blender 3D.

EDUCATION:

Sri Sowdeswari Vidyalaya Matriculation Higher Secondary School   July 2021-2022
Percentage Scored – 79.8%

Sri Ramakrishna Engineering College, Coimbatore, B. Tech IT   July 2024-2026
Current Semester CGPA 8.4

PROJECTS:

❖ **Firm AI Research engine for commercial courts.** GIT
  Developed an AI-powered research engine to assist commercial courts with legal research and streamlined complex queries.
  Tech Stack: Python, Prompt Engineering, LLM, SQL, React JS, Tailwind CSS.

❖ **Global Compliance Navigator.** GIT
  Developed a search engine for industry compliance professionals to streamline workflow and solve complex compliance problems.
  Integrated pgvector for faster vector-based querying and optimized performance in handling large datasets.
  Tech Stack: React JS, Node JS, Python, PostgreSQL, pgvector, Ollama.

❖ **Surface Anomaly detection using GenAI.** (Under development)
  Created a self-improving surface anomaly detection system using GenAI and synthetic datasets for enhanced defect detection.
  Tech Stack: Python, GenAI, Machine Learning, Synthetic Data.

❖ **SocketChat.io** GIT / WEB
  Designed a web socket-based chat platform with customizable chatrooms for public and private communication.
  Tech Stack: React JS, Node JS, Tailwind CSS.

❖ **Quezz.io (Quiz App)** GIT / WEB
  Developed a quiz web app where users can create, share quizzes, and view leaderboards.
  Tech Stack: React JS, Firebase, Tailwind CSS.

❖ **IoT DB-Lite** GIT
  Designed a lightweight IoT database optimized for resource-constrained environments, supporting MQTT protocol for efficient data collection and queries.
  Tech Stack: Python, IoT, MQTT Protocol.

❖ **AI-recipe Generator** GIT / WEB
  Created an AI-powered recipe generator that suggests dishes based on user-provided ingredients.
  Tech Stack: Node JS, Prompt Engineering.

INTERNSHIP:

Cresco Works (Onsite)   *June 2024 – July 2024*
  Worked on Prompt Engineering, integrating OpenAI GPT-3.5 into the company's Applicant Tracking System (ATS) to improve candidate matching, query handling, and data insights.

CODETECH IT Solutions (Remote)   *April 2024 – May 2024*
  Completed a Web Development Internship, contributing to multiple projects involving front-end and back-end development. Enhanced functionality, optimized performance, and utilized version control through Git.

EVENTS & ACHIEVEMENTS:

- ❖ **3rd Place – Smart Industry Hackathon 2024 (International Level)**, conducted by Bonfiglioli *– Awarded ₹75K cash* prize for building a surface anomaly detection system using GenAI to enhance industrial process efficiency.
- ❖ **2nd Place – Vazhitheer Road Safety Hackathon (2025)**, conducted by IIT Madras (IITM) – *Won ₹35K cash prize* for developing a road safety solution to prevent accidents.
- ❖ **1st Place – Intercollegiate Design Thinking Competition (2022)** – Presented an innovative project on Disease Management.
- ❖ **1st Place – SREC Coin Ideathon (2024)** – Created a solution for Surplus Food Management, enhancing food redistribution efficiency.
- ❖ **1st Place – ADZAP by SREC MBA NICHE'24** – Presented a concept on AI Business Analytics & Cloud POS systems.
- ❖ **1st Place – CODEBLITZ Intercollegiate Competition (2023)** – Developed a full-fledged E-commerce Website Frontend.
- ❖ **2nd Place – Tryphania Intercollegiate Hackathon (2023)** – Built Food Bridge, a web application to reduce surplus food wastage. *Won ₹2K cash prize*.
- ❖ **2nd Place – Hack-a-Bot UiPath Automation Challenge** – Developed an automation project using UiPath for placement and won *₹2.5K cash prize*.

CERTIFICATES:

- ❖ **HackerRank** – *Frontend Developer (React)* Certification.
- ❖ **HackerRank** – *Software Engineer Intern Certificate*.
- ❖ **HackerRank** – *Problem Solving (Basic)* Certification.
- ❖ **HackerRank** – *Java (Basic)* Certification.
- ❖ **NVIDIA** – *Fundamentals of Deep Learning*.
- ❖ **LinkedIn Learning** – *AWS Essential Training for Developers*.
- ❖ **LinkedIn Learning** – *React Essential Training*.
- ❖ **IBM** – *Enterprise Design Thinking Certification*.
- ❖ **Udemy** – *JavaScript Practices Crash Course*.

HOBBIES:

Tech Exploration – Technology exploration, including AI, IoT, and cloud advancements.

Competitive Coding – Solving problems on platforms like LeetCode and HackerRank.

Book Reading – I enjoy reading books about self-development.

Creative Design – Using Blender 3D with Illustrator to create graphic design artwork for social media.