SARAN HIRUTHIK M

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EDUCATION

B.Tech in Computer Science and Engineering   **Aug 2023 – Present**
*Amrita School of Computing, Amrita Vishwa Vidyapeetham - **CGPA** - **8.63***   *Coimbatore, India*

All India Senior School Certificate Examination   **Apr 2016 – Mar 2023**
*Maharishi Vidya Mandir Senior Secondary School - **Percentage** - **94.4%***   *Erode, India*

PROJECTS

Pragati – MBA Fest Web Backend ⎘ | *Node.js, Express.js, MongoDB, SQL, SwaggerUI*   **January 2025**
- Built **2 backend modules** using **Node.js, Express.js, MongoDB** to handle organizer and tag operations for Pragati Fest Website.
- Worked on **JWT authentication, RBAC** on the website backend Codebase, collaboratively in a team of 5 developers.
- Documented APIs using **SwaggerUI** and followed **RESTful design** principles with version control using **Git**.
- Backend GitHub Link   Frontend GitHub Link

Shortix – URL Shortener ⎘ | *TypeScript, Node.js, Express.js, MongoDB, Redis*   **May 2025**
- Built **Shortix**, a URL shortener with custom aliasing, QR code generation, and link analytics using **TypeScript, Node.js, Express.js, MongoDB**. Followed **RESTful API design** for maintainable backend structure.
- Implemented backend with **Redis caching** for fast redirects, optimized MongoDB schemas, and secured routes with rate limiting.
- Created a user dashboard showing **click analytics, link expiration, and QR codes** to help users track their links.

myGit – Simplified Repository Manager ⎘ | *Node.js, Express.js, AWS S3*   **August 2024**
- Built a backend with **Node.js and Express.js** to simulate basic repository operations like push, pull, revert, and add, similar to cloud repository systems.
- Integrated **AWS S3** for secure data storage and versioning to manage files efficiently.
- Developed modular **RESTful APIs** and a simple **CLI** to perform Git-like operations, improving maintainability and usability.

HealoScope – Health Blog ⎘ | *ReactJS, Tailwind CSS, NodeJS, ExpressJS, MongoDB*   **May 2024**

- Built a full-stack health blog platform with **role-based authentication** (JWT + RBAC) using **React.js, Node.js, MongoDB** to manage secure access for doctors and patients.
- Integrated **AI-powered blog generation** using **Gemini API**, supporting automated content creation and **Markdown** formatting.
- Developed a **responsive frontend** with **React and Tailwind CSS**, deployed via **Vercel/Render** for stable uptime.
- Backend GitHub Link   Frontend GitHub Link

CERTIFICATIONS

AWS Certified Cloud Practitioner

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL
Developer Tools: VS Code, Android Studio, Git and GitHub, Postman, Hoppscotch
Technologies & Frameworks: Node.js, Express.js, MongoDB, MySQL, React.js, Flutter, Tailwind CSS