RAGHU

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SUMMARY

Final-year CS student with a passion for backend systems and scalable product design. Founded a startup and led the development of a live campus navigation system. Continuously building through project-based learning and real-world execution.

SKILLS

Python, JavaScript, Node.js, Express.js, MongoDB, SQL, REST APIs, AWS EC2, Docker, NGINX, Git, GitHub, Postman, HTML5, EJS, Object-Oriented Programming (OOP).

PROJECTS

Imaging Pipeline - Lee Kong Chian Museum (Singapore) — 4 Months

- Developed and maintained the backend for the museum website to manage artifact photograph requests, enabling internal tracking, external user access, and admin control, all delivered with smooth data flow and client-driven iteration
- EJS | Node.js | Express.js | SQL

Fire Vision Pro – Funded by Govt. of Tamil Nadu - TN Startup (IVP) — Ongoing

- Developed the backend infrastructure for FireVision, a real-time fire and smoke detection platform, handling multi-camera live streams, REST APIs, database design, and scalable system architecture.
- Node.js | Express.js | MongoDB | AWS EC-2 | REST API

TECTOVIA SMS and Quiz - DST Funded — 6 Months

- Designed and implemented backend APIs for the TECTOVIA Quiz & SMS platform, supporting AI-assisted accessibility, admin/user management workflows, and earning ₹2.5L DST funding.
- Node.js | Python | VOSK KWS (STT)| Whisper(TTS) | Express.js | Mongo DB

RDOMA - Open-Source Chrome Extension — 1 Month

- Built an open-source Chrome extension that surfaces domain-specific Gmail emails using the Gmail API and OAuth 2.0, designed with a privacy-first, fully client-side architecture and a distributed OAuth model.
- JavaScript | Chrome Extension APIs (Manifest V3) | Gmail API | OAuth 2.0 | HTML | CSS | Git

EXPERIENCE

Beaver Health AI - (Backend and Machine Learning Intern) — Sep 2025 - Dec 2025

Designed and implemented backend APIs for a medical AI triage platform, integrating an AI inference service, enabling secure patient and doctor authentication, report submission and review workflows, and access to historical triage records through role-based access control.

RexinTech – Govt. Registered Startup - (Founder) — Jan 2025 - June 2025

Founded and led RexinTech, developed Camp View—a 3D campus navigation platform using GeoJSON and AI pathfinding. Managed backend architecture, pitched for seed funding, and conducted real-world testing before formally closing operations to pursue full-time software engineering roles.

Avatar Robotix - (Machine Learning Intern) — July 2024 - Jan 2025

Developed and maintained ML models focused on real-time object and facial landmark detection, improved model precision, collaborated on feature design, and enhanced skills in Python, deep learning, computer vision, and large language models during a 6-month internship at Avatar Robotix.

EDUCATION

Bachelor of Computer Science (AI & DS) - 3rd Year — June 2023 - May 2026

- Studying at Gobi Arts & Science College, maintaining an 82% average

Achievements

- **Shortlisted to the final round** of the Tamil Nadu Startup (IVP) program, selected among 60+ teams statewide.
- **Secured seed funding** for two college projects through competitive pitching.
- **Awarded First Place** for Best Science Project at *Science Expo 2K24*, Bannari Amman Institute of Technology.