

RAAM PRATHAP R V

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Education

Amrita Vishwa Vidyapeetham

Bachelor Of Technology, Computer Science and Engineering | CGPA: 8.43/10

Aug. 2023 – Present

Coimbatore, Tamil Nadu

Experience

Full Stack Developer Intern | Sudha Software Solutions | Certificates

May. 2025 – July. 2025

Next.js | Node.js | MongoDB

Remote

- Built and deployed 6+ full-stack modules with Next.js, Node.js, MongoDB, and Tailwind, improving scalability and responsiveness.
- Implemented secure authentication, media storage with Cloudinary, and CI/CD pipelines that reduced deployment time by 35%.
- Recognized as **Best Intern**, and received Internship Certificate, Experience Letter, and Letter of Recommendation.

Software Developer Intern | 1000Lookz

Dec. 2024 – Mar. 2025

AI-ML | UI/UX | RAG | GAN | Deep Learning

Remote

- Designed and launched a GAN-powered hairstyle recommendation system, increasing personalization accuracy by 28%.
- Integrated DeepSeek-based RAG pipeline for PDF QA, cutting retrieval latency by 40% across 200+ documents.
- Collaborated with UI/UX team to optimize interface usability, leading to 3x faster interaction flow during testing.

Projects

Lab Equipment Management System (LEMS) | Frontend | Backend | Demo | Docs

- Developed a full-stack Lab Equipment Management System using Next.js, Node.js, and MongoDB with secure authentication, real-time notifications, and role-based dashboards.
- Adopted by Amudha Lab (Amrita Vishwa Vidyapeetham), managing 100+ devices and automating 90% of equipment requests, reducing manual effort by 75%.
- Built with modular microservices and mobile-first UI, ensuring seamless multi-device access and high availability.

Sociogram v2 | GitHub | Demo

- Engineered a production-grade real-time chat app enabling 1:1 text/image messaging for 150+ users.
- Constructed scalable backend with Node.js, WebSockets, and MongoDB; enabled instant communication with <200ms latency.
- Deployed secure React + Tailwind frontend with Cloudinary-powered media sharing and user profile management.

Bird Species Classifier | GitHub | Demo

- Built a deep learning web app using a custom CNN (11M+ parameters) with 91.7% accuracy across 50 bird species.
- Designed a Flask-based interface with image upload and real-time inference features.
- Deployed app on Render and used Google Drive API to serve large models efficiently under bandwidth limits.

Technical Skills

Languages: English (fluent), Tamil (fluent), Hindi (basic proficiency), Japanese (basic proficiency)

Programming Languages: C, C++, Python, Java, JavaScript, TypeScript, Haskell, SQL (MySQL)

Web Development & Frameworks: React.js (TypeScript/Javascript), Next.js (TypeScript/Javascript), Vite.js, Node.js, Express, Flask, FastAPI

Styling & UI Libraries: Tailwind CSS, Bootstrap, ShadCN, Lottie, Motion, Figma

State Management & Forms: Zustand, Redux, Redux Toolkit, react-hook-form, Zod

Routing & API Handling: Tanstack Router, Axios, RESTful APIs

Databases & Backend: MySQL, MongoDB, Firebase

Machine Learning & AI: TensorFlow, PyTorch, GANs, OpenCV, Scikit-learn, Transformers, RAG, DeepSeek

Embedded Systems: Raspberry Pi, ESP32, Arduino

Analytics & Others: Power BI, Microsoft Excel

Operating Systems: Linux (Ubuntu), Windows

Awards / Extracurricular

- Finalist, **Cisco ThingQubator** | Recognized among top 10 of 500+ entries for designing an IoT-based accident detection system, enhancing real-time emergency alerts.
- Winner, **Vertex Innovate 2025** | Awarded for excellence in real-world tech application. | [View Certificate](#)
- Volunteer | Model United Nations Event Management | Contributed to organizing and managing MUN events, coordinating logistics, and ensuring smooth operations. [View Certificate](#)