

# RAAM PRATHAP R V

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## Education

### Amrita Vishwa Vidyapeetham

*Bachelor Of Technology, Computer Science and Engineering | CGPA: 8.55/10*

**Aug. 2023 – Present**

*Coimbatore, Tamil Nadu*

## Experience

### Full Stack Developer Intern | Sudha Software Solutions | Offer Letter

**May. 2025 – Present**

*Next.js | Node.js | MongoDB*

*Remote*

- Built and shipped scalable full-stack modules with responsive UIs (Next.js, Tailwind CSS) and secure REST APIs (Node.js, Express, MongoDB).
- Worked on real-world features involving role-based auth, file uploads, Cloudinary, email services (Resend), and CI/CD pipelines.

### Software Developer Intern | 1000Lookz

**Dec. 2024 – Mar. 2025**

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

*Remote*

- Engineered an AI-driven hairstyle recommendation system using GANs, enhancing personalization and improving user engagement through an optimized UI.
- Implemented a Retrieval-Augmented Generation (RAG) model using DeepSeek for PDF-based question answering, reducing information retrieval time by 40%.

## Projects

### Bird Species Classifier | GitHub | Demo

- Built a deep learning web application for bird species identification using a custom-trained CNN.
- Implemented a multi-layer convolutional model with over 11M parameters for high accuracy predictions.
- Developed a web interface using Flask, HTML, and CSS with image upload functionality and responsive result display.
- Integrated Google Drive model hosting and deployed the app on Render for seamless access.

### Sociogram v2 | GitHub | Demo

- Developed a modern chat application enabling real-time text and image messaging among registered users via email authentication.
- Engineered backend infrastructure with Node.js, Express.js, and WebSockets for seamless instant messaging.
- Built responsive frontend using React.js, Tailwind CSS, and Vite.js, with secure image storage via Cloudinary.
- Implemented user authentication and profile management features for enhanced user experience.

### Post-Accident Alert System | Frontend | Backend | Demo

- Engineered a real-time system for detecting and reporting accidents to improve road safety.
- Built backend using Node.js, Express.js, and WebSockets for real-time communication and emergency broadcasting.
- Developed frontend dashboards for clients, drivers, and hospitals with role-based authentication and responsive UI.
- Integrated nearest hospital finder and emergency alert broadcast for efficient emergency response.

## 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:** HTML5, CSS3, 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

**Developer Tools & Platforms:** VS Code, Eclipse, Android Studio, Git, GitHub, Google Cloud Platform, Resend

**Embedded Systems:** Raspberry Pi, ESP32, Arduino

**Analytics & Others:** Power BI, Microsoft Excel

**Operating Systems:** Linux (Ubuntu), Windows

## Awards / Extracurricular

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- 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](#)