

Ravindran G

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Objective

Full-Stack Developer with a strong technical foundation in Artificial Intelligence, Natural Language Processing, and Reinforcement Learning. Experienced in building production-ready UIs and intelligent, automated backend systems. Seeking an onsite internship to leverage my research and engineering skills to solve complex technical challenges.

Education

Amrita Vishwa Vidyapeetham Coimbatore

B.Tech in Computer Science and Engineering

2023 – 2027

- Learning Path: Full-stack development, AI-assisted systems, and real-world software engineering.
- Activities: Active participation in hackathons, research initiatives, and hands-on technical implementations.

Work Experience

Frontend Intern

Jan 2026

KVT Exports Coimbatore, India

- Developing responsive and production-ready user interfaces using React.js for internal business applications.
- Collaborating closely with backend engineers and UI/UX designers to improve usability, accessibility, and workflow efficiency.
- Designed reusable component architecture, optimized rendering performance, and reduced page load time across operational dashboards.
- Contributed to real-world deployment pipelines, ensuring stability, maintainability, and scalability of frontend modules.

Projects

AcademyAI – AI-Powered Learning Assistant — Next.js, MongoDB

- Built a multilingual AI-driven academic assistant platform to simplify complex educational content and improve student productivity.
- Implemented OCR-based document extraction, AI-powered summarization, automated scholarship discovery, and structured exam-preparation workflows.
- Designed an intelligent chatbot supporting 10+ Indian languages to enhance accessibility for diverse learners.
- Integrated scalable backend storage and responsive frontend experience for real-time academic assistance.

Nyx – Lost & Found Platform — Flutter, React, Go, PostgreSQL

- Developed a cross-platform mobile application using Flutter for reporting and discovering lost and found items.
- Built a responsive admin dashboard using React for content moderation and system management.
- Integrated frontend applications with Go-based backend services via RESTful APIs for real-time data interaction.
- Implemented efficient state management using Zustand for scalable and predictable UI behavior.
- Designed intuitive UI/UX workflows to enable seamless item posting, browsing, and management.

Publication

Real Time Test Case Generation using Natural Language Processing and Reinforcement Learning in Agile Development

- Developed an end-to-end automated test generation framework that parses Agile user stories using Natural Language Processing (NLP) to identify key testing scenarios.
- Implemented a Reinforcement Learning (Q-Learning) agent that dynamically adapts generated test cases to evolving requirements, reducing manual script maintenance.
- Engineered a Python-based pipeline integrated with CI/CD workflows to enable real-time automated test updates whenever new user stories are committed.

Achievements

- National & International Hackathon Finalist: Selected as finalist across multiple prestigious competitions demonstrating strong problem-solving and real-world product development skills.
- Hackathons: SkyHack 2025, Laserhack, AVISHKAAR Season 3 (National-Level Hackathon), AVISHKAAR Season 3 Extended Round, National Road Safety Hackathon 2025, Logithon (World's Largest Logistics Hackathon), Build with India Hackathon, IIIT Sri City Hackathon.

Skills

Technical: React.js, Next.js, Node.js, Express.js, MongoDB, PostgreSQL, JavaScript, TypeScript, Flutter, Python

Tools: Git, GitHub, VS Code, Postman, Docker, Streamlit

Soft Skills: Leadership, communication, teamwork, event organization

Area of Interest

- Full-Stack Development • Artificial Intelligence • Data Analysis