

# Ritam Rao

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## TECHNICAL SKILLS

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**Languages:** C/C++, JavaScript, HTML, CSS, Python

**Frameworks:** React, Node.js, Next.js

**Developer Tools:** Git, VS Code, Vercel

**AI:** LLMs, Prompt Engineering

## EXPERIENCE

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### Undergraduate Research Assistant [Certificate](#)

Feb 2025 – July 2025

*ICSSR-Sponsored Project*

*Bengaluru, IN*

- Developed Full-Stack Application for the holistic development for Bengaluru Police Officers.
- Developed the full-stack web application using React, Node.js, PostgreSQL and Prisma for robust data and system performance.
- Contributed to UX design for responsive and mobile-friendliness.

### Business Development [Certificate](#)

June 2025 – July 2025

*ZANS*

*Bengaluru, IN*

- Oversaw day-to-day operations to bring in investors for the company
- Collaborated on outreach initiatives which expanded the company's visibility within 10+ local educational institutions

### President [\[Certificate\]](#)

July 2025 – Present

*DevSphere*

*Bengaluru, IN*

- RV University's first Open Source Club, executed in building an active Open-Source community consisting of 300+ members
- Executed 5+ workshops on Git which impacted 200+ students all over the campus

## PROJECTS

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### EventHub - 2nd Place SAP Github Vibeathon | *Next.js, TypeScript, Tailwind CSS, PostgreSQL*

- Architected a platform with Next.js and Supabase to facilitate secure Event Management
- Implemented Gemini 2.5 pro to extract skills tags from users and using Cosine Similarity to match students with professionals at events.
- Developed a multi-QR code scanning to sync with multiple attendance across volunteers and organizers
- Designed accessible interface using Tailwind CSS and shaden/ui.

### ClaimInsurance - Winner AI Build Sprint Hackathon | *Next.js, TypeScript, Tailwind CSS, PostgreSQL*

- Architected an automated end-to-end insurance claims engine utilizing a multimodal Gemma 4 pipeline via Ollama for image analysis, structured data parsing, and AI-generated fraud detection.
- Engineered an interactive, traceable decision-making workflow using React Flow, Next.js 14, and WebSockets to visually map claim stages, from DigiLocker document verification to automated policy coverage validation gates.

### SNYPTR - AI Shooting Performance Analyser | *React, Vite, Python, Flask, TensorFlow, PyTorch*

- Architected a SaaS platform for competitive 10m air pistol and rifle athletes to upload post-shot images and automatically classify technique errors.
- Implemented dynamic coaching logic to deliver personalized corrective feedback on trigger mechanics, stability, and breath management based on classification metrics.
- Developed a Python backend utilizing Flask and deep learning frameworks to train classifiers and serve an inference endpoint for error analysis.

## EDUCATION

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### RV University

*Bachelor of Computer Science and Engineering, Minor in Finance, CGPA: 8.59*

Bengaluru, India

*Sept. 2024 – Aug 2028*