

# Vishnu Vinod

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## EDUCATION

### • Indian Institute of Technology, Madras

B.Tech and M.Tech in Engineering Design; CGPA: 8.17 (JEE Adv 3278 AIR)

Madras, India

July 2020 – May 2025

## PROFESSIONAL EXPERIENCE

### • Circular

Founding Engineer

Remote

Feb 2025 - July 2025

- Built camera flow to auto-label items, generate product shots with virtual model, reducing listing time by **60%**
- Added **agentic** interface with approval flows to apply filters, view, bulk-update products using natural language
- Designed generic table system with auto-generated filters and sorting, eliminating per-table logic across the app

### • NatWest

Quant Analyst Intern (Received PPO)

Bengaluru

Summer 2024

- Developed a high-precision random sequence generator in Python and C++ for Monte Carlo simulations.
- Improved convergence rates by **20%**, reduced bias by **24%** through extensive benchmarking and optimisation.

### • Vimaan

Software Intern

Bengaluru

December 2023 - May 2024

- Developed a user-agnostic microservice using Spring Boot, Java, Neo4j, Memgraph, Junit, Mochito.
- Migrated queries from SQL to Cypher, improving efficiency of a crucial workflow by **80%** (2s to 0.4s).
- Optimised Cypher queries through profiling, data modeling, and indexing to ensure efficient data retrieval.

### • Commenda

Software Intern (Received PPO)

Bengaluru

Summer 2023

- Built company blog, and glossary using Next.js, with Notion as CMS, increased website engagement by **2.2x**.
- Devised key part of onboarding flow using puppeteer achieving **88%** (25s to 3s) reduction in request time [blog]
- Deployed scheduler to auto-log user progress into Google Sheets, Mail, eliminating repetitive manual workflows

### • Viak

Software Intern

Remote

Dec 2022 - May 2023

- Built NFT display widget boosting engagement by **40%**, and a project settings page halving support requests
- Integrated payments using Stripe, built dedicated admin dashboard, improving management efficiency by **30%**
- Converted Figma designs and wireframes into high-quality React code; built a reusable front-end UI library.

### • Accelerate

Backend Software Intern

Chennai

Jan 2022 - May 2022

- Built the back-end for a restaurant chain's food ordering system in Express.js, supporting 50k+ daily customers
- Migrated the POS software from **monolithic to microservices** based architecture following MVCS pattern.
- Developed CRUD APIs, implemented JWT auth; used Electron.js, CouchDB, and Swagger for documentation.

## PROJECTS

- **Uxie:** Created a PDF reader with annotations, note taking, collaboration, AI chat, and flashcard; used by 500+ students. Placed **2nd** in IITM Hackathon '23 for the MVP, and **2nd** in IITM Buildschool '23. [blog]

- **FMHY:** Built wiki, search, and discord bot for a Reddit community, reaching **25,000+ daily active users**.

- **Shaastra IITM Website:** Built website for Shaastra IITM using Next.js, enabling registration of 3,000+ students nationwide with Google Sheets as the backend.

## HACKATHONS

- **Mentora:** Built acad portal for queries, notes, course data (scraped from IITM sites); placed **3rd** in Buildschool '22

- **Ping:** Built a campus safety app where student alerts from mobile were streamed via **SSE** to a security dashboard with incident location and nearby camera feeds.

- **ML Hackathon:** Placed **2nd** out of 100+ attendees in SRM University's 12-hour ML hackathon at 97.24% accuracy

## SKILLS

**Languages:** TypeScript, JavaScript, Python, Java, SQL, Cypher, HTML, CSS, C, Go, C++

**Technologies:** Node, Express, React JS, Next JS, Nest JS, Redis, Neo4J, MySQL, PostgreSQL, MongoDB, Firebase, Git, Mocha, Chai, Mockito, Junit, Puppeteer, AWS, Docker, LLM APIs, React Native, Expo, Electron, SpringBoot