

# 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 Software Engineer (#2)

Remote

Feb 2025 - July 2025

- Built AI pipeline to auto-label items and generate product shots on virtual models, cutting listing time by **60%**
- Added **agentic** interface with approval flows to apply filters, view, bulk-update products using natural language
- Led TypeScript migration; built a dynamic table system with configurable filters, removing per-table logic

### • NatWest

Quant Analyst Intern (Received PPO)

Bengaluru

Summer 2024

- Engineered 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

- Led migration from SQL to graph-based architecture, building Spring Boot microservice powering workflows
- Migrated queries from SQL to Cypher, reducing latency of a crucial workflow by **80%** (2s to 0.4s)
- Analysed graph data patterns, optimised Cypher queries through profiling, data modeling, and indexing

### • 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 widget (**↑40% engagement**), admin dashboard (**↑30% efficiency**); integrated Stripe payments.
- 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 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, serving **25,000+ daily active users**.

## HACKATHONS & INITIATIVES

### • Mentora:

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

### • Ping:

Built campus safety app streaming student alerts via **SSE** to dashboard with incident location, cameras feeds

### • ML Hackathon:

Placed **2nd** out of 100+ attendees at SRM University's ML hackathon with 97.24% accuracy

### • Shaastra IITM:

Built registration site in Next.js for 3,000+ students nationwide with Google Sheets as backend

### • Tensors (Social Impact Club) IITM:

Led team of 6 developers building web solutions for NGOs, government initiatives. Built grievance portal for the Idukki constituency (**1.2M+ citizens**), managed full development lifecycle

## SKILLS

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

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