

Vishnu Vinod

vishnuu.com · github.com/zeus-12

EDUCATION

- **Indian Institute of Technology, Madras** Madras, India
Dual degree in Engineering Design; CGPA: 8.13 (JEE Adv 3278 AIR) *Aug. 2020 – July. 2025(Expected)*

PROFESSIONAL EXPERIENCE

- **NatWest** Bengaluru
Quant Analyst Intern (Received PPO) *May 2024 - July 2024*
 - Developed a high-precision random sequence generator in Python and C++, boosting simulation accuracy.
 - Improved convergence rates by **20%**, reduced bias by **24%** over existing methods, yielding better performance.
- **Vimaan** Bengaluru
Software Intern *December 2023 - May 2024*
 - Developed a user-agnostic microservice using Spring Boot, Java, Neo4j, Memgraph, Junit, Mochito.
 - Optimised Cypher queries through profiling, data modeling, and indexing to ensure efficient data retrieval.
 - Migrated queries from SQL to Cypher, improving efficiency of a crucial workflow by **80%** (2s to 0.4s).
- **Commenda** Bengaluru
Software Intern (Received PPO) *May 2023 - July 2023*
 - Built company blog, glossary using Next JS, Notion as CMS, improved website engagement by **2.2x**
 - Devised a critical part of onboarding flow using puppeteer achieving **88%** (25s to 3s) reduction in request time
 - Deployed scheduler for automated metric loggings to Google Sheets, Mail, drastically reducing manual efforts.
- **Viak** *Dec 2022 - May 2023 · Jan 2024 - Aug 2024*
Software Intern
 - Built NFT display widget increasing 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** *Jan 2022 - May 2022*
Backend Software Intern
 - 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:** Built a Pdf reader app with annotations, note taking, collaboration, AI-powered chat and flashcard, with 400+ active users. Placed **2nd** in IITM Hackathon '23 for the MVP, and **2nd** in IITM Buildschool '23.
- **FMHY:** Built a wiki, search, and Discord bot for a Reddit community, reaching a peak 25K+ DAUs, with periodic GitHub scraping for reliable, accessible data.
- **JMT Shaastra:** Built a website for Shaastra IITM's Junior Make-A-Thon using Next.js, enabling seamless registration of 3,000+ students nationwide with Google Sheets as the data layer.
- **Ping:** Built an emergency-alert mobile app, admin dashboard as part of AMI-challenge for on-campus students, with real-time location tracking and proximity-based camera feeds.
- **Everhealth:** Built a gamified task-tracking app using Expo and Firebase, featuring a personalized AI assistant, leaderboard, RSS feeds, dynamic streaks, and a level system.

HACKATHONS

- **Mentora:** Built acad portal for queries, notes, course data (scraped from IITM sites), placed 3rd in Buildschool '22
- **Comportal:** Built a complaint portal app, won 3rd out of 80+ students in a 24h hackathon by IITM Techsoc Club
- **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, Go, SQL, Cypher, HTML, CSS, C

Technologies: Node, Express, React JS, Next JS, Nest JS, Redis, Neo4J, MySQL, PostgreSQL, CouchDB, MongoDB, Firebase, Git, Cheerio, Mocha, Chai, Mockito, Junit, Puppeteer, AWS, React Native, Electron, SpringBoot