Vishnu Vinod

vishnuu.com · github.com/zeus-12

EDUCATION

- **Indian Institute of Technology, Madras**   Madras, India
  Dual degree in Engineering Design; CGPA: 8.23   *Aug. 2020 – July. 2025(Expected)*
    - JEE Advanced AIR 3278
    - JEE Mains AIR 4104
    - KEAM AIR 105 (among 1L)

PROFESSIONAL EXPERIENCE

- **NatWest**   Bengaluru
  Quant Analyst Intern   *May 2024 - July 2024*
    - Designed and implemented a 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   *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%** reduction in request time.
    - Deployed scheduler for automated metric loggings to Google Sheets, Mail, drastically reducing manual efforts.

- **Viak**
  Frontend Software Intern   *Dec 2022 - May 2023 · Jan 2024 - Aug 2024*
    - Built NFT display widget increasing engagement by **40%**, and a project settings page halving support requests
    - Converted Figma designs and wireframes into high-quality React code; built a reusable frontend UI library.

- **Accelerate**
  Backend Software Intern   *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:** Built a Pdf reader with annotation, note taking, multi-user collaboration, chat and flashcard powered by LLMs. Achieved a peak **50+ DAU**. Placed **2nd** in IITM Hackathon '23 for prototype, and **2nd** in Buildschool '23.
- **FMHY:** Built a wiki page, search, discord bot attracting a peak traffic of **20,000+ daily active users**. Periodically scraped, sanitized, and stored data, for the search.
- **JMT Shaastra:** Built a website for Shaastra IITM, enabling the seamless registration of over **3000 students** from all over the country, using Next JS, with Google Sheets serving as the database.
- **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.

HACKATHONS

- **Mentora:** Academic portal for student queries, note uploads, course details; **3rd** place in Buildschool '22
- **Comportal:** Built a complaint portal, winning **3rd** among 80+ students in a 24-hour hackathon by Techsoc Club
- **ML Hackathon:** Placed **2nd** in 12-hour ML Hackathon conducted by SRM University (among 100+ participants)

SKILLS

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

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