

Vishnu Vinod

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EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	%/CGPA	Year of Completion
Dual Degree in Engineering Design	Indian Institute of Technology, Madras	8.13	2025
Class XII (CBSE)	SFS Public School, Kottayam	95.8	2020
Class X (CBSE)	Bharatiya Vidya Bhavan, Calicut	92.2	2018
<ul style="list-style-type: none">JEE Advanced AIR 3278 (2.5 lakh candidates)JEE Mains AIR 4104 (11 lakh candidates)KEAM¹ AIR 105 (1 lakh candidates)			

PROFESSIONAL EXPERIENCE

NatWest <i>Quant Analyst Intern</i> (May '24 – July '24) (Received PPO)	<ul style="list-style-type: none">Developed a highly accurate random sequence generator, enhancing numerical simulation convergence.Performed comparative analysis, validating algorithm efficacy against existing methods through bias measurements.Increased convergence rates by 20% and reduced bias by 24%, significantly outperforming previous methods.
Vimaan Robotics <i>Software Intern</i> (Dec '23 – May '24)	<ul style="list-style-type: none">Developed a user-agnostic microservice using Spring Boot, Java, Neo4j, Memgraph, and conducted unit testing.Optimised Cypher queries through profiling, data modelling, and indexing to ensure efficient data retrieval.Migrated SQL queries to Cypher, achieving an 80% performance improvement in a critical workflow (from 2s to 0.4s).
Commenda <i>Software Intern</i> (May '23 – July '23) (Received PPO)	<ul style="list-style-type: none">Built a company blog, and glossary using Next JS, Nest JS, Notion API as CMS, improved website engagement by 2.2x.Devised a critical part of the onboarding and payment flow using Puppeteer achieving 88% reduction in latency.Deployed scheduler for automated metric loggings to Google Sheets and Email, drastically reducing manual efforts.
Viak <i>Software Intern</i> (Dec '22 – May '23)	<ul style="list-style-type: none">Created an NFT display widget increasing engagement by 40%, and project settings page halving support requests.Integrated payments using Stripe, built a dedicated admin dashboard, improving order management efficiency by 30%.Converted Figma designs and wireframes into high-quality React code; built a reusable frontend UI library.
CoursePanel <i>Start-up Cofounder</i> (July '22 – May '23)	<ul style="list-style-type: none">Built a university portal, chatbot to aid 3300+ students to make better academic decisions in selecting courses.Developed an Academic Operations Platform, for faculty to be above 35% more efficient in program planning.Consulted a professional academy on curriculum designing and syllabus for teaching software development.
Accelerate <i>Software Intern</i> (Jan '22 – May '22)	<ul style="list-style-type: none">Built the back-end for a restaurant chain's food ordering system in Express.js, supporting over 50,000 daily customers.Migrated the POS software from monolithic to microservices based architecture following MVCS pattern.Developed CRUD APIs, implemented JWT authentication; used Electron.js, CouchDB, and Swagger for documentation.

PROJECTS

AI Powered PDF Reader	<ul style="list-style-type: none">Built a PDF reader app with annotation, note-taking, OCR, TTS, and multi-user collaboration, with 300+ active users.Integrated AI-driven chat with PDFs, flashcard generation with feedback, text auto completion enhancing user learning.
r/FMHY Wiki Page	<ul style="list-style-type: none">Built a comprehensive wiki page, search, Discord bot for a Reddit community, serving at peak 25K+ daily active users.Periodically scraped, sanitised, and stored data from their GitHub page, enhancing overall data reliability, accessibility
JMT Shaastra	<ul style="list-style-type: none">Collaborated with Shaastra⁵ IITM to develop a website for the Junior Make-A-Thon event using Next.js.Facilitated the seamless registration of over 3,000 students nationwide, utilising Google Sheets as the database.
Emergency alert mobile app	<ul style="list-style-type: none">Built an emergency-alert mobile app, dashboard for on-campus students utilising Expo, Next JS, Express JS, MongoDB.Constructed an Admin Dashboard with real-time location tracking & proximity-based camera feeds triggered by the user.
Gamified Daily Tasks Assistant	<ul style="list-style-type: none">Developed a mobile app encouraging users to complete daily tasks using gamification techniques, using Expo, Firebase.Integrated a personalised GPT-4 powered doctor assistant, leaderboard, RSS feeds, dynamic streak, and level system.

SKILLS

Proficient: Typescript, JavaScript, Python, Node, Express, MongoDB, MySQL, Puppeteer, Cheerio, Git, GitHub, HTML, CSS, React, Next JS, React Native, Figma, Tailwind | **Intermediate:** Java, Spring Boot, Nest JS, SQL, Firebase, Redis, Neo4j, AWS, Mocha, Chai, C, JUnit, Mochito, Electron

POSITIONS OF RESPONSIBILITY

Tensors⁶ WebOps Head ('22-'23)	<ul style="list-style-type: none">Coordinated and led projects undertaken by Tensors⁶ to fund its social campaign project driving 25% increase in revenue.Built web and mobile grievance portals for MP⁷ serving Idukki Constituency benefiting 12 Lakh+ citizens with needs.Conceptualised a wireframe, led the product development team, and grew the team size to 6 members
Saarang⁸ DevOps Coord ('21 –'22)	<ul style="list-style-type: none">Updated and modified Saarang⁸ website portal used by over 1,80,000 students from 500+ colleges all around India.Built the Saarang '21 leaderboard app, updating points real-time using PostgreSQL, Express, React, Sockets.

EXTRA-CURRICULAR AND CO-CURRICULAR ACTIVITIES

Uxie	<ul style="list-style-type: none">Built an AI-enhanced PDF reader, winning 2nd place in IITM Hackathon³ '23 for the prototype, and 2nd in Buildschool⁴ '23.
Mentora	<ul style="list-style-type: none">Built Mentora, an academic portal for students to ask doubts, upload notes, course details scraped from IITM website.Won 3rd in Buildschool⁴ '22, Used Next JS, MongoDB, Redis, Azure Blob Storage, Google Sheets API, Puppeteer, Cheerio.
Comportal	<ul style="list-style-type: none">Built Comportal, a complaint portal app, winning 3rd among 80+ students in a 24-hour hackathon by IITM Techsoc Club
ML	<ul style="list-style-type: none">Placed 2nd in a 12-hour ML-Hackathon conducted by SRM University, attended by over 100 participants.Achieved an outstanding accuracy of 97.24%, involving data cleaning, training using the RandomForestClassifier model.
Others	<ul style="list-style-type: none">Chess FIDE rating 1609, District Champion.Hostel Basketball Athlete

1- Kerala Engineering and Medical Entrance Examination, 2-Daily Active Users, 3-24-hour hackathon conducted by IITM Techsoc club among 100+ annually, 4- 10-week hackathon by IITM Techsoc club involving 10 teams chosen from 20+ teams, 5-IITM's annual technical festival, 6-An NGO run by the students of IITM, 7-Member of Parliament, 8-IITM's annual cultural festival