



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

- 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)	<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)	<ul style="list-style-type: none"> • Built 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. • 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 atleast 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

Uxie	<ul style="list-style-type: none"> • Built a PDF reader app with annotation, note-taking, and multi-user collaboration, reaching a peak of 100+ DAU². • Integrated AI-driven chat with PDFs, flashcard generation with feedback, text autocompletion enhancing user learning.
FMHY	<ul style="list-style-type: none"> • Built a comprehensive wiki page, search, Discord bot for a Reddit community, serving at peak 20K+ 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.
Ping	<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 and proximity-based camera feeds triggered by user.
EverHealth	<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 <i>WebOps Head ('22-'23)</i>	<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 their needs. • Conceptualised a wireframe, led the product development team, and grew the team size to 6 members
Saarang⁸ <i>DevOps Coord ('21-'22)</i>	<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