



## 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)      • KEAM<sup>1</sup> AIR **105** (1 lakh candidates)

## PROFESSIONAL EXPERIENCE

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

## PROJECTS

<a href="#">Uxie</a>	<ul style="list-style-type: none"> <li>Built a PDF reader app with annotation, note-taking, OCR, TTS, and multi-user collaboration, with 300+ active users.</li> <li>Integrated AI-driven chat with PDFs, flashcard generation with feedback, text autocompletion enhancing user learning.</li> </ul>
<a href="#">FMHY</a>	<ul style="list-style-type: none"> <li>Built a comprehensive wiki page, search, Discord bot for a Reddit community, serving at peak <b>20K+ daily active users</b>.</li> <li>Periodically scraped, sanitised, and stored data from their GitHub page, enhancing overall data reliability, accessibility</li> </ul>
<a href="#">JMT Shaastra</a>	<ul style="list-style-type: none"> <li>Collaborated with Shaastra<sup>5</sup> IITM to develop a website for the Junior Make-A-Thon event using Next.js.</li> <li>Facilitated the seamless registration of over <b>3,000</b> students nationwide, utilising Google Sheets as the database.</li> </ul>
<a href="#">Ping</a>	<ul style="list-style-type: none"> <li>Built an emergency-alert mobile app, dashboard for on-campus students utilising Expo, Next JS, Express JS, MongoDB.</li> <li>Constructed an Admin Dashboard with real-time location tracking and proximity-based camera feeds triggered by user.</li> </ul>
<a href="#">EverHealth</a>	<ul style="list-style-type: none"> <li>Developed a mobile app encouraging users to complete daily tasks using gamification techniques, using Expo, Firebase.</li> <li>Integrated a personalised GPT-4 powered doctor assistant, leaderboard, RSS feeds, dynamic streak, and level system.</li> </ul>

## 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

<b>Tensors<sup>6</sup></b> <i>WebOps Head ('22-'23)</i>	<ul style="list-style-type: none"> <li>Coordinated and led projects undertaken by Tensors<sup>6</sup> to fund its social campaign project driving <b>25%</b> increase in revenue.</li> <li>Built web and mobile grievance portals for MP<sup>7</sup> serving Idukki Constituency benefiting <b>12 Lakh+</b> citizens with their needs.</li> <li>Conceptualised a wireframe, led the product development team, and grew the team size to 6 members</li> </ul>
<b>Saarang<sup>8</sup></b> <i>DevOps Coord ('21-'22)</i>	<ul style="list-style-type: none"> <li>Updated and modified Saarang<sup>8</sup> website portal used by over <b>1,80,000</b> students from <b>500+</b> colleges all around India.</li> <li>Built the Saarang '21 leaderboard app, updating points real-time using PostgreSQL, Express, React, Sockets.</li> </ul>

## EXTRA-CURRICULAR AND CO-CURRICULAR ACTIVITIES

<a href="#">Uxie</a>	<ul style="list-style-type: none"> <li>Built an AI-enhanced PDF reader, winning <b>2<sup>nd</sup></b> place in IITM Hackathon<sup>3</sup> '23 for the prototype, and <b>2<sup>nd</sup></b> in Buildschool<sup>4</sup> '23.</li> </ul>
<a href="#">Mentora</a>	<ul style="list-style-type: none"> <li>Built Mentora, an academic portal for students to ask doubts, upload notes, course details scraped from IITM website.</li> <li>Won <b>3<sup>rd</sup></b> in Buildschool<sup>4</sup> '22, Used Next JS, MongoDB, Redis, Azure Blob Storage, Google Sheets API, Puppeteer, Cheerio.</li> </ul>
<a href="#">Comportal</a>	<ul style="list-style-type: none"> <li>Built Comportal, a complaint portal app, winning <b>3<sup>rd</sup></b> among 80+ students in a 24-hour hackathon by IITM Techsoc Club</li> </ul>
<b>ML</b>	<ul style="list-style-type: none"> <li>Placed <b>2<sup>nd</sup></b> in a 12-hour ML-Hackathon conducted by SRM University, attended by over 100 participants.</li> <li>Achieved an outstanding accuracy of <b>97.24%</b>, involving data cleaning, training using the RandomForestClassifier model.</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>Chess FIDE rating 1609, District Champion.</li> <li>Hostel Basketball Athlete</li> </ul>