

CHAITHANYA SHAJI

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PROFESSIONAL SUMMARY

Versatile Software Development Engineer skilled in **full-stack technologies** (Python, MERN stack) and **AI-powered solutions**. Proficient in **RESTful APIs** and **database management**, with a strong inclination toward **machine learning**, **Large Language Models (LLMs)**, and AI innovation.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C, Java, TypeScript

Frameworks: React.js, Flutter

Back-End Technologies: Node.js, Express.js, FastAPI

DevOps and Tools: Docker, Git

Machine Learning: PyTorch, Natural Language Processing (NLP)

Databases: PostgreSQL, MySQL, MongoDB, Firebase

EDUCATION

APJ Abdul Kalam Technological University
Bachelor of Technology in Computer Science

CGPA: 8.45
Nov 2021 – May 2025

EXPERIENCE

Freelance Full-Stack Developer

ekalooms Clothing Store

MERN Stack

Dec 2023 – Present

- Designed and deployed a **responsive e-commerce platform** for an emerging start-up.
- Optimized Google Lighthouse scores to **74 (mobile)** and **97 (desktop)**.
- Integrated **Razorpay** for secure payments and built an **Admin Panel** for inventory and sales management.

PROJECTS

Law4Her – Legal Assistance Platform (Final Year Project)

GitHub (Flutter, Firebase, Razorpay, FastAPI)

- Created an **AI RAG chatbot** utilizing **web-scraped BNS data** and **IPC datasets (1800+ pages)** to provide multilingual legal insights with responses within **2-3 seconds**.
- Devised a secure **AES-encrypted lawyer consultation** feature with **timer-based wallet deductions** enabled via Razorpay.
- Dockerized the chatbot deployment to ensure scalability and crafted an admin dashboard for lawyer verification and analytics visualization.

EventON – Technical Society Event Management App (3rd Year Project)

GitHub (Flutter, Firebase)

- Automated event management workflows, saving **10+ hours/week** and improving participant tracking by **95%**.
- Integrated QR code functionality, enhanced with a **Dialogflow chatbot** and **payment verification**, reducing event access issues by **80%**, and calculates **KTU Activity Points**.

MathNotes4All

Live Demo (React.js, TypeScript, Python, FastAPI)

- Built an **interactive tool** for desktop and mobile, inspired by Apple's MathNotes, to solve mathematical problems, leveraging the Gemini API with **dynamic LaTeX rendering**.

Drowsiness Detection System

GitHub (PyTorch, OpenCV, YOLO)

- Implemented a **real-time fatigue detection system** for driving safety using **YOLO** and **OpenCV** with **92% accuracy**, triggering alerts within **1 second**.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

Chairperson, IEEE Computer Society SBC CEV

Jan 2023 – Dec 2024

- Organized a **national-level hackathon** with 100+ participants, led **technical workshops**, and managed the **IEEE SB CEV Magazine** as Chief Editor, ensuring timely releases.

Vice-Chairperson, IEEE SB CEV

Jan 2024 – Present

- Spearheaded **event planning** and community engagement, mentoring junior members for professional growth.

CERTIFICATIONS AND ACHIEVEMENTS

The Complete 2024 Web Development Bootcamp, J.P. Morgan – Software Engineering Job Simulation
Cape-Fest Hackathon 2023: First Position