

# 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, Hugging Face, LangChain

**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)**  
*Razorpay, FastAPI, LangChain*

*GitHub IPC Demo BNS Demo (Flutter, Firebase,*

- Designed an **AI RAG chatbot** using **web-scraped BNS data** and **IPC datasets (1800+ pages)** to deliver multilingual legal insights within **2-3 seconds**.
- Utilized **LangChain** for efficient integration of legal datasets and retrieval-augmented response generation.
- Developed a secure **AES-encrypted lawyer consultation feature** with **timer-based wallet deductions** powered by Razorpay.
- Dockerized the chatbot for scalability and implemented 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%**.
- Incorporated **QR code functionality** with a **Dialogflow chatbot** and payment verification to reduce event access issues by **80%**.
- Enabled activity tracking by integrating **KTU Activity Points** calculations directly into the app.

**MathNotes 2.0**

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

- Developed an **interactive tool** for solving mathematical problems, inspired by Apple's MathNotes, with **dynamic LaTeX rendering**.
- Integrated the **Gemini API** to provide real-time solutions for complex mathematical equations.

**Drowsiness Detection System**

*GitHub (PyTorch, OpenCV, YOLO)*

- Implemented a **real-time fatigue detection system** to enhance driving safety, achieving **92% accuracy**.
- Utilized **YOLO** and **OpenCV** to detect drowsiness and trigger 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

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**The Complete 2024 Web Development Bootcamp, J.P. Morgan – Software Engineering Job Simulation**

**Cape-Fest Hackathon 2023:** First Position