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: Node.js, FastAPI, Express.js   **Tools:** Docker, Git, Figma
AI/ML: PyTorch, Hugging Face, LangChain   **Databases:** PostgreSQL, MySQL, Firebase

EDUCATION

APJ Abdul Kalam Technological University   *CGPA: 8.45*
Bachelor of Technology in Computer Science   *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   *GitHub IPC BNS (Flutter, Firebase, Razorpay, FastAPI, LangChain, Hugging Face)*

- Designed an **AI RAG chatbot** using **web-scraped BNS data** and **IPC datasets (1800+ pages)** to deliver multilingual legal insights within **2-3 seconds**, leveraging **LangChain** for dataset integration and retrieval-augmented response generation, and Dockerized it for scalability.
- Developed a secure **AES-encrypted lawyer consultation feature** with **timer-based wallet deductions** powered by Razorpay.
- 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)*

- 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 CS SBC CEV *(Jan 2023 – Dec 2024)* **Vice-Chairperson, IEEE SB CEV** *(Jan 2024 – Present)*

- Led a **national-level hackathon** with 100+ participants, organized **technical workshops**, and managed the **IEEE SB CEV Magazine** as Chief Editor.
- Spearheaded **event planning** and mentorship programs, enhancing community engagement and professional growth.

CERTIFICATIONS AND ACHIEVEMENTS

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

Cape-Fest Hackathon 2023: First Prize