

Varun Sambath Kumar

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Summary

Master's student in Computer Science (UTA, May 2026) with strong experience in **software engineering, cloud, and AI-driven solutions**. Skilled in **full-stack development, distributed systems, and MLOps**, with hands-on expertise in **Angular, Node.js, React, Docker, Kubernetes, and Python ML frameworks**. Proven ability to design scalable applications, optimize performance, and deliver secure, user-focused solutions through both academic and professional projects.

Education

The University of Texas at Arlington, MS in Computer Science Engineering	May 2026
Sri Krishna College of Engineering, B.E. Computer Science Engineering(CGPA:8.0)	May 2024

Professional Experience

Full Stack Engineer Holistic MD LLP	2023 - 2024
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- Collaborated with cross-functional teams to gather project requirements.
- Conducted 15+ peer code reviews per sprint, improving maintainability and cutting production bugs by 25%.
- Built and deployed scalable MERN applications, accelerating feature delivery and reducing code redundancy.
- Researched industry trends to improve software design and functionality.

Projects

Freelance Project: WIN Bricks Enterprise Website

- Collaborated with a local brick manufacturing enterprise to design and develop their **official business website**.
- Built a **responsive, mobile-friendly site** using **React.js and Tailwind CSS**, showcasing products and services.
- Managed **domain setup and DNS configuration** via GoDaddy and deployed the site on **Vercel cloud hosting**.
- Served as a **freelance developer**, managing the entire project lifecycle from requirements to deployment.

AI-Powered Applicant Tracking System

- Built an **AI-driven resume analysis platform** using **GPT models** to evaluate resumes against job description.
- Implemented **job search** with keyword and location filters, enabling users to find relevant roles efficiently.
- Built an interactive **frontend with Streamlit**, for resume uploads, **ATS** scoring, and cover letter generation.
- Containerized the application using **Docker** to ensure scalability, portability, and easy deployment.

FairShare — AI-Powered Expense Manager

- Engineered a full-stack expense-sharing platform with Angular, Node.js, Express, and MongoDB, supporting real-time collaboration for **5,000+ users**.
- Integrated **OCR-based receipt scanning with Tesseract, Python** to auto-extract expense data, reducing manual entry time by **70%**.
- Implemented **LSTM-based predictive** analytics to forecast expenses, improving budgeting accuracy by **30%**.
- Built **real-time WebSocket notifications** and group expense sync with **sub-50ms multi-user latency**.

Relevant Skills

- **Programming & Scripting:** Python, Java, JavaScript (ES6+), TypeScript, SQL, Bash
- **Web & Mobile Development:** React, **React Native**, Angular, Node.js, Express, Spring Boot, Flutter
- **Databases:** MongoDB, MySQL, PostgreSQL
- **Machine Learning & AI:** PyTorch, TensorFlow, Scikit-learn, LSTM, OCR (Tesseract), Data Pipelines
- **Version Control & Collaboration:** Git, GitHub, GitLab, Agile/Scrum
- **Cloud & DevOps:** Docker, Kubernetes, AWS