

# Varun Sambath Kumar

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## Summary

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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

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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

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Full Stack Engineer   Holistic MD LLP	2023 - 2024
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- Collaborated in building a wellness platform featuring programs, marketplace, coach/practitioner portals, and personalized member experience.
- Conducted 15+ peer code reviews per sprint, improving maintainability and cutting production bugs by 25%.
- Built and deployed scalable applications, accelerating feature delivery and reducing code redundancy.
- Researched industry trends to improve software design and functionality.

## Projects

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### 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

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