Jyothi Lakshmi Nagaraj

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WORK EXPERIENCE

Software Engineer 3 – Walmart Global Tech (Sam's Club)   *May 2022 – July 2024*

- **Reduced checkout failures by 20%** and boosted user engagement by 15% by driving UI/UX improvements across pharmacy and tire order flows, modernizing interfaces and enhancing responsiveness.

- Improved prescription order **efficiency by 25%** and enhanced user experience by implementing the "Multi-Patient Single Order" feature, delivering scalable end-to-end order systems for prescription modules.

- Reduced **manual migration effort by 80%** across 10+ engineering teams by implementing a CODEMOD automation tool to migrate to the Blue Steel library and creating comprehensive documentation for continuous improvement and onboarding.

- Reduced **booking time by 40%** and improved system reliability for **2.5M customers** by implementing prescription and immunization scheduling modules using React.js, Node.js, and Tailwind CSS.

Senior Software Engineer – Capgemini (Altran Technologies),   *Mar 2021 – May 2022*

- Improved enterprise platform **usability by 20%** and ensured accessibility compliance by modernizing IBM's SSP|SEAS UI using React, Redux, Node.js, and GraphQL, creating a more intuitive and inclusive experience for global users.

- Reduced team ramp-up time by 30% and strengthened engineering culture by leading the hiring and onboarding of 15+ engineers, conducting 50+ technical interviews, and implementing a structured mentorship and knowledge-sharing framework.

Software Engineer – (6D Technologies & VuNet Systems)   *Jul 2017 – Feb 2021*

- Increased order **volume by 20%** and improved transaction efficiency by delivering telco-grade digital services for Ooredoo's prepaid, postpaid, and device platforms, ensuring scalability and seamless integration across systems.

- Enhanced operational visibility and reduced issue investigation time by engineering real-time monitoring dashboards using the ELK stack (Elasticsearch, Logstash, Kibana) and building custom D3.js visualizations, including a **Unified Transaction Map** for end-to-end network tracking.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML, CSS, Python, Java, SQL, React.js, Next.js, Redux Toolkit, Node.js, GraphQL, Tailwind CSS, React Testing Library, Jest.

Tools & Technologies: Machine Learning (TensorFlow, scikit-learn, NLP), AWS, Git, VS Code, Webpack, Babel, APIs, Jenkins, Docker, Kubernetes, Distributed Systems, SOA/Microservices Architecture, REST and AJAX.

Databases: MySQL, PostgreSQL, MongoDB, Elasticsearch.

ACADEMIC PROJECTS

- **CodeSphere – SaaS Web application: Link:** Designed and developed full-stack cloud IDE, featuring secure authentication, real-time collaboration, 10+ language support, VSCode themes, dashboards, and webhook integrations.

- **AI-Powered Personalized Health & Nutrition Recommendation System (Front End & Back End)**: Developed a system to provide personalized meal and diet recommendations using Python, TensorFlow, and FastAPI; built a frontend to display real-time health dashboards and user insights.

EDUCATION

Chicago State University – Chicago, IL, USA   *Jan 2025 - May 2026*
Master of Science (MS) Computer Sciences   *GPA: 4.0/4.0*
Courses: Data Structures & Algorithms, Operating Systems, Software Engineering, Machine Learning, Database Systems.

Visvesvaraya Institute of Technology - Bengaluru, India   *Aug 2013 - May 2017*
Bachelor of Engineering in Computer Science   *GPA: 8.79/10*

ACHIEVEMENTS & VOLUNTEERING

Presented poster on AI Innovation in RTC at **IEEE RTC Conference 2025, Illinois Tech**. link
Volunteered and presented research on "Violence Detection using Deep Learning" at the IEEE Conference, Chicago State University (2025). link