

SURABHI

Los Angeles, CA (Open to Relocation) | (213) 574-8545 | s279497@usc.edu | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Software Engineer with expertise in building and optimizing B2B data integration products at Informatica, leveraging AWS, Kubernetes, and microservices to enhance scalability and significantly improve API performance

EDUCATION

University of Southern California (USC) (GPA: 3.4/4)

Los Angeles, CA

Master of Science in Computer Engineering

August 2023-May 2025

Course Work: Operating Systems, Data Structures and Algorithms, Foundations of AI, Machine Learning, Database Systems

NMAM Institute of Technology (GPA: 3.7/4)

Karnataka, India

Bachelor of Engineering in Computer Science

August 2016-May 2020

EXPERIENCE

MEDIBLES (HealthCare StartUp)

Los Angeles, CA

Software Intern

May 2024-August 2024

- Leveraged **Python** and **GenAI** to enhance platform capabilities, driving innovation and improving performance for patient management
- Migrated Adobe API from **JWT** to **OAuth**, **enhancing security** and streamlining authentication for patient management
- Designed **AWS SQS** queues to handle 10K+ daily messages for patient data, improving processing time and scalability

INFORMATICA

Bangalore, India

Software Engineer

April 2021-July 2023

- Developed **12 new features** for Informatica's **B2B-DX** and **MFT** using **Java**, **React**, and **SQL**, enhancing system performance, security, and high availability
- Collaboratively replaced the deprecated LogiXML dashboard in Informatica B2B Data Exchange using **JavaScript** and **SQL**, enabling real-time data display, optimizing **ETL** integration, and improving data processing efficiency by 30%
- Upgraded JGroups to resolve **critical issues for 70% of customers**, ensuring seamless performance and reliability in high-availability clusters for Informatica B2B products
- Optimized** large file processing by implementing a 10-minute size-stability check, **reducing premature processing** and ensuring accurate data ingestion before B2B Data Exchange consumption
- Designed and implemented a streamlined **CI/CD** pipeline using **Jenkins**, resulting in a reduction of 5 man-hours/week for deployment, allowing for faster release of services
- Led** Scrum collaboration for a 10+ member team, improving delivery speed, optimizing workflows, conducting rigorous **code reviews**, and adhering to agile methodologies

Associate Software Engineer

October 2020-March 2021

- Conducted Unit, Integration, Performance, and Regression testing on Informatica B2B DX and MFT using **JUnit**, ensuring reliability and minimizing errors and downtime
- Acquired hands-on expertise with **Docker** and **Kubernetes** orchestration, enhancing containerization and deployment processes to improve scalability and reliability in distributed system
- Pioneered a JIRA **chatbot** using **Node.js**, **REST API**, and **NLP-based ML (LSTM)**, trained on knowledge docs to answer **customer** queries, **reducing query time by 60%**, as part of a hackathon project

PROJECTS

Cybersecurity Threat Detection Platform/ [Link](#)

- Built a real-time security platform (**Python**, **TensorFlow**, **Wireshark**) to detect network threats, increasing anomaly detection accuracy by 25%
- Optimized network traffic data pipelines, achieving 30% faster processing and enabling proactive threat mitigation
- Deployed on **AWS**, reducing detection response time by 40% and improving system scalability

Duo-Othello Game AI (CSCI 561 Foundations of AI)

- Developed an **AI agent (C++, Alpha-Beta Pruning)** for a 12x12 Othello variant, optimizing move selection under time constraints
- Ranked in the **top 10**, outperforming baseline agents and demonstrating strong AI strategy and problem-solving skills

Socket programming project (EE 450 Computer Networks) / [Link](#)

- Developed a multi-threaded **TCP/UDP** client-server architecture, optimizing response times by 40%
- Ensured 95% accuracy in inventory tracking by improving data transfer reliability

TECHNICAL SKILLS

Programming Languages:	Java, Python, C, C++, Golang
Web Technologies:	HTML, CSS, JavaScript, TypeScript, ReactJS, Vue.js (Exposure)
Databases:	MySQL, Oracle DB, Redis, DB2, MongoDB
DevOps & Cloud:	Docker, Kubernetes, AWS, Terraform
AI/ML:	TensorFlow, OpenCV, PyTorch, CNNs

CERTIFICATIONS

Certified Kubernetes Application Developer (CKAD) (Udemy)