Sharan Jamanani

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EDUCATION

Master of Computer Science - North Carolina State University, Raleigh, NC   [GPA: 3.9/4.0]   August 2023 - Expected May 2025

Bachelor of Engineering in Computer Science - Gogte Institute of Technology, India   [GPA: 9.08/10]   June 2018 - September 2022

SKILLS

Coursework: Analysis of Algorithms, Human Computer Interaction, Software Engg, Computer Networks Security, LLMs in Security.
Languages: TypeScript, Java, JavaScript, Python, C++, CSS, Bash.
Frameworks/Libraries: React, React Native, Spring Boot, Angular, Django, Node.js, AWS, Flutter, Jenkins, Hibernate.
Tools & Databases: Git, Docker, Kubernetes, PostgreSQL, MongoDB, InfluxDB, Redis, Prometheus, Grafana, Terraform, Ansible.

EXPERIENCE

North Carolina State University, Raleigh, NC
Student Software Developer   April 2024 - Present
- Built a monitoring dashboards with **InfluxDB**, **Nodejs**, and **Grafana** achieving real-time alerts and reducing operation errors by 25%
- Revamped the **notoriOS** operating system using **C programming** to integrate with InfluxDB v2, improving data handling and cutting retrieval times by 40%. Used **Docker** to containerize the server, achieving a 50% faster deployment.
- Developed an in-house **React** cellular segmentation editor, with custom **HTML Canvas hooks** enhancing correction accuracy by 4% and reducing model retraining time by 10% on NC State HPC clusters

Meta16labs Healthcare and Analytics Pvt Ltd
Sr. Software Developer   April 2022 - July 2023
- Directed telephony integration using **React** and **Nodejs** for automated caller information display, reducing response times by 60%
- Architected SMS/WhatsApp middleware for 120,000+ users using **Python**, **Nodejs**, **Twilio** and **MessageBird** APIs
- Crafted an interactive dashboard builder using React and **Redux toolkit** that converts raw **JSON** into dynamic visuals.
- Managed **Spring Boot** microservices for API Gateway, Discovery Server, and other services, enhancing scalability to handle 2x traffic
- Configured on-premise **S3 buckets** to achieve regulatory adherence for countries, while simultaneously reducing latency by 25%
- Implemented **Terraform modules**, and **Ansible** playbooks, improving system consistency and reducing configuration errors by 60%

Meta16labs Healthcare and Analytics Pvt Ltd
Full Stack Developer Intern   October 2020 - March 2022
- Engineered a **React Native** app with reused **React** web bundles for online/offline data collection, increasing reach by 4 times
- Leveraged **Expo** and **Async Storage** for auto-sync, optimizing data collection and synchronization of 10,000+ records
- Automated **Node.js** workflows for data import/export, supporting CSVs and reducing processing time by 50%

PROJECTS

Portfolio Website - MacOS Theme Showcase | [bit.ly/sj-567]
Tech Stack*:* React, jQuery, Tailwind CSS, EmailJS, React Draggable, React OSX Dock, GH Pages, Github Actions.
- Developed a **MacOS-themed** portfolio website featuring sleep screen, 3rd-party **IDE** integration to view website codebase.
- Integrated **Email** functionality for direct contact and implemented macOS-inspired features like background image changes.
- Simulated **File-system** interactions and **Terminal** to enhance user experience and showcase portfolio projects.

NCSU Hackpack CTF WebApp - CodeSanitize| [bit.ly/srj-tf-java]
Tech Stack: Java (Spring Boot, Spring Security, JPA, Thymeleaf, SQL, Restful API), Docker, Jenkins, Terraform.
- Implemented CodeSanitize challenge for the NCSU Hackpack CTF using **Java Spring Boot** to leverage its robust ecosystem for enterprise-level scalability, and Dockerized the application for containerized deployments.
- Integrated with **Jenkins** pipeline for automated code quality and dependency management.

Job Tracker and Project Management WebApp - Career Pulse Tracker | [bit.ly/sj-job]
Tech Stack*:* React, Redux Toolkit, Liveblocks, React-Bootstrap, Tailwind CSS, Axios, Lodash, jQuery, UUID, MongoDB.
- Built a job application tracker with task **drag-and-drop** and role-based board isolation for streamlined application management.
- Integrated Liveblocks for real-time collaboration on **multi-board tracking** with live updates and responsive design.

Desktop Application - ORCS: Open Resource Control and Surveillance Toolkit | [bit.ly/sj-orcs]
Tech Stack*:* React, Redux, Webpack, Nodejs (Microservices), Express, Rust, Kubernetes, Docker, Tauri, Electron, Socket.IO, MongoDB.
- Developed a multithreaded dashboard for real-time CPU and memory monitoring with **IAM**, FarmHash IP encryption, and **Socket.IO** with **Redis**, and created an auto-startup service to improve toolkit usability.
- Received recognition and funding from the Karnataka State Council for Science and Technology for innovation and utility.

EXTRACURRICULAR

- **Open Source Contributor**: Refined imagery library color and input validations for **OSGeo Grass GIS** using Cppcheck. [bit.ly/sj-grass]
- **Volunteer - Indian Cancer Society**: Reduced cancer misdiagnosis rates by **25%** through diagnostic workflows for cancer patients.
- **Volunteer - All Things Open:** Assisted with registration, session coordination, and technical support for a smooth event.

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2024 Generative AI Professional** [bit.ly/oci-ai]
- **Google Cloud Innovators 2024 - Associate Cloud Engineer (In Progress)** [bit.ly/srj-gcp]