

# Sharan Jamanani

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## SUMMARY

Dynamic full-stack and cloud developer with expertise in React, Python, Java, and CICD. Experienced in streamlining processes and improving efficiency through automation.

## 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, Automated Learning Data Analysis, Software Engg, Computer Networks Security, LLMs in Security.

**Languages:** TypeScript, Java, Golang, 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, MySQL, MongoDB, InfluxDB, Redis, Prometheus, Grafana, Terraform.

## EXPERIENCE

### North Carolina State University, Raleigh, NC

Student Software Developer

April 2024 - Present

- Built a monitoring system with **EC2**, **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 across multiple locations
- Developed an in-house **Django-React** cellular segmentation editor, enhancing correction accuracy by 4% 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
- 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 40%

### 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 | [\[bit.ly/sj-567\]](https://bit.ly/sj-567)

**Tech Stack:** React, jQuery, Tailwind CSS, EmailJS, React Draggable, React OSX Dock, GH Pages.

- Developed a **MacOS-themed** portfolio website featuring terminal, and 3rd-party **IDE** integration to view website codebase.
- Integrated **Email** functionality for direct contact and implemented macOS-inspired features like **File-system** interactions.

### NCSU Hackpack CTF - CodeSanitize WebApp | [\[bit.ly/srj-tf-java\]](https://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.

### Desktop Application - ORCS: Open Resource Control and Surveillance Toolkit | [\[bit.ly/sj-orcs\]](https://bit.ly/sj-orcs)

**Tech Stack:** React, Redux, Webpack, Nodejs (Microservices), Express, Rust, 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.

### Job Tracker and Project Management System - Career Pulse Tracker | [\[bit.ly/sj-job\]](https://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.

## EXTRACURRICULAR

- Open Source Contributor:** Refined imagery library color and input validations for **OSGeo Grass GIS** using Cppcheck. [\[bit.ly/sj-grass\]](https://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** [\[bit.ly/oci-ai\]](https://bit.ly/oci-ai)
- Google Cloud Innovators 2024 - Associate Cloud Engineer (In Progress)** [\[bit.ly/srj-gcp\]](https://bit.ly/srj-gcp)