



# Sam Sunder

## Software Engineer

Software Engineer with 5 years of experience in backend development, cloud infrastructure, and secure system design. I specialize in building scalable, high-performance applications and have hands-on experience with network security, cloud deployments, and virtualization technologies. Skilled in leading projects, optimizing system performance, and collaborating with cross-functional teams to deliver secure and efficient solutions.

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## TECHNICAL SKILLS

- Programming: Java, Python, Shell Scripts.
- Backend: Spring Boot, MySQL, MongoDB, REST APIs.
- Cloud: AWS AMI, OpenStack Glance, Kubernetes, Docker, vSphere Template.
- Security & Compliance: mTLS, Step CA, Certificates.

## WORK EXPERIENCE

### Senior Software Engineer

#### Gigamon

May 2024 - Present

Chennai, India

- **Implemented mTLS communication** for Gigamon's internal cloud suites using Step CA, securing **100% of sensitive data exchanges** with encrypted authentication.
- **Developed secure certificate generation and verification workflows**, strengthening identity management and system security.
- **Led Spring Boot and core component upgrades** to the latest versions, improving system stability and compatibility.
- **Enhanced system reliability** by contributing to High Availability (HA) mode for Gigamon's primary management system, **increasing uptime to 99.9%**.
- **Integrated FIPS compliance**, ensuring all communications adhere to strict security standards when enabled.

### Software Engineer

#### Ninjacart

June 2020 – May 2024

Bengaluru, India

- Developed **20+ RESTful APIs** using Spring Boot & Dropwizard for high-performance B2B & B2C logistics operations.
- **Optimized database queries**, reducing latency by **30%** and improving transactional efficiency in high-volume operations.
- **Led backend development** for B2C and Grocery modules, automating transaction management and financial reporting, **streamlining transactions worth millions of dollars annually**.
- **Containerized and automated deployments**, Dockerizing legacy and new apps, optimizing CI/CD pipelines in Jenkins, and cutting release time **from 4 hours to 1 hour**.
- Developed a Node.js-based **automated testing framework**, reducing manual testing efforts by approximately 60%.

- **Monitored and troubleshot production issues** in real-time using Kibana and Grafana to analyze logs, detect anomalies, and perform **Root Cause Analysis (RCA) for system failures**, ensuring timely issue resolution.
- Built a **dynamic PDF generation system**, implementing template-based data population using database queries while allowing **user modifications** for customized document creation.

## EDUCATION

### Bachelor of Engineering in Computer Science

CEG - Anna University | CGPA: 7.75/10

July 2016 – April 2020

## PROJECTS

### Machine Learning-Based Disease Detection

- Developed a machine learning model to classify malarial vs. normal cells using image processing, achieving **85% accuracy**, and aiding in early disease detection.

### Gesture-Controlled PowerPoint Using OpenCV

- Built an **OpenCV-based hand gesture recognition system** to control Microsoft PowerPoint presentations, submitted for the Microsoft Code.Fun.Do competition.

### Optimized VM Placement in Cloud Data Centres

- Contributed to the development of a context-aware, heuristic-based VM placement optimization solution, improving resource allocation in heterogeneous cloud environments.

### End-to-End Encryption System

- Developed a **multi-layered secure communication system** with dynamic encryption using multiple cryptographic algorithms. Messages were encrypted at each hop through private IP tunnels, ensuring **resistance to MITM attacks**. Built a JavaFX-based Windows UI for encryption, decryption, and self-destruction on failed authentication.

### Personal Cloud Media Server

- Set up and optimized a **home NAS with Jellyfin**, fine-tuning storage and network settings for seamless 4K streaming across multiple devices.

## ACHIEVEMENTS

### Microsoft Code.Fun.Do – 2nd Place

- Built a hand-gesture-controlled PowerPoint application using OpenCV & Python, securing 2nd place in Microsoft's university-level hackathon.

### Maverick Employee Award – Ninjacart

- Recognized for exceptional efficiency and problem-solving in backend development, leading to improved system performance and reliability.