

Surya Valavala

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EDUCATION

University of California, Santa Cruz

Master of Science in Computer Science — **GPA: 4.0/4.0**

Sept 2024 – Dec 2025

Santa Cruz, CA

Gandhi Institute of Technology and Management

Bachelor of Technology in Computer Science — **GPA: 3.98/4.0**

Aug 2020 – Apr 2024

Hyderabad, India

TECHNICAL SKILLS

Programming Languages: Go, C++, Python, JavaScript, SQL

Backend & Systems: gRPC, Protocol Buffers, Raft, Temporal SDK, Node.js, React, Express, REST APIs, Asyncio

Cloud & Databases: AWS (EC2, S3), PostgreSQL, MongoDB

Tools: Git, CI/CD, Docker, Kubernetes

EXPERIENCE

Software Engineer Intern

Temporal Technologies

Jun 2025 – Sept 2025

San Jose, CA

- Built an **automated recovery system** for **namespace migrations** with Slack approvals and **idempotent retry/failover logic**, reducing mean time to recovery (MTTR) from hours to minutes
- Enhanced **observability** with metrics, dashboards, and **failure-pattern detection**, reducing alert noise by **70%** and enabling proactive fixes
- Architected a **batching framework** in Go for cross-cluster **namespace migrations**, classifying workloads as heavy/light with configurable thresholds and reducing migration time by **40%** on large-scale deployments
- Delivered **production-ready migration tooling** with automated approvals and workflow integration, improving reliability and significantly reducing operator overhead in large-scale rollouts
- Built an **OCLD AI Agent** (Temporal's internal CLI for cloud operations) with **Slack integration** and **OpenAI**, enabling engineers to quickly find the right OCLD commands through conversational AI instead of relying on –help menus or trial-and-error

Teaching Assistant (CSE101: DSA)

Baskin School of Engineering, UC Santa Cruz

Sept 2024 – Apr 2025

Santa Cruz, CA

- Led technical instruction for **300+ undergraduate CS students** in C++ data structures and algorithms, error debugging, supporting code reviews and problem-solving in weekly lab sessions
- Wrote and productionized **backend scripts** to batch-process **MOSS** (Stanford's Measure of Software Similarity Algorithm) across **5+ years** of code submissions, automating comparisons and reducing manual review effort by **70%**
- Designed and deployed a **web-based interface** to efficiently query and manage MOSS reports, leading to a more **scalable** and **reliable** academic integrity system

Software Engineer Intern

CodeClause

Jul 2023 – Sept 2023

Hyderabad, India

- Developed and maintained Node.js/Express backend services with MongoDB, supporting authentication and core user workflows to improve system reliability
- Implemented logging and monitoring for APIs, enabling faster debugging and reducing issue resolution time

Software Engineering Intern

Phoenix Global

Apr 2023 – Jun 2023

Hyderabad, India

- Built and optimized backend APIs with PostgreSQL and React.js frontend components, improving data speed and user experience
- Automated deployments using Docker and CI/CD pipelines, reducing release errors by 30% and accelerating feature rollouts

PROJECTS

FastStore: Distributed File System | Go, gRPC, Raft, Protocol Buffers, Docker

- Built a lightweight distributed file system in Go with chunking, replication, consistent hashing, and Raft-based metadata coordination, achieving **85%** local storage throughput with gRPC-based CLI operations

AWARDS & HONORS

- ACM GITAM Codenova 2022:** 1st place winner in a university-wide competitive programming event with 300+ participants
- Star Intern Award** - Recognized by Phoenix Global for valuable project contributions and effective teamwork
- Merit Scholarship Recipient** - Maintained top 1% academic standing in CSE department, securing full tuition scholarship for all 8 semesters throughout my undergraduate program at GITAM University