

# SURYAKIRAN VALAVALA

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## EDUCATION

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

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

Sep 2024 - Mar 2026

Santa Cruz, CA

**Relevant Coursework:** Distributed Systems, Analysis of Algorithms, Principles of Database Systems

### GITAM UNIVERSITY

Bachelor of Technology in Computer Science and Engineering — **CGPA: 3.98/4.0**

Aug 2020 - Apr 2024

Hyderabad, IND

**Relevant Coursework:** DSA, Operating Systems, Computer Architecture, Database Management Systems, Parallel Programming

## TECHNICAL SKILLS

**Languages:** C++, Python, Golang, Java, SQL

**Systems Programming:** File Systems, Linux Kernel, Distributed Storage, Docker

**Databases:** MongoDB, MySQL, PostgreSQL, Firebase

**Developer Tools:** Git, Docker, AWS (S3, EC2), CI/CD, Jenkins, Postman

**Core Concepts:** Data Structures, Algorithms, Distributed Systems, Operating Systems, System Design

## EXPERIENCE

### Software Engineer Intern

Apr 2023 - Jun 2023

Phoenix Global

Hyderabad, India

- Architected ML recommendation system achieving **90%+ accuracy**, resulting in **15% higher** user engagement and **22%** improved customer retention
- Implemented CI/CD pipeline with automated testing, reducing deployment time by **25%** and post-launch bugs by **10%**
- Collaborated with cross-functional teams using Agile methodology to deliver project **2 weeks ahead** of schedule

### Full-stack Developer Intern

Jul 2023 - Sep 2023

CodeClause

Remote

- Engineered React Native application with optimized architecture, reducing screen load times by **20%** for **1,000+ daily users**
- Developed **12+ reusable UI components**, decreasing development time by **30%** and enhancing code maintainability
- Integrated real-time features and chatbot functionality with RESTful APIs, delivering **40% increase** in user engagement

## PROJECTS

### LearnNexis (Ed-Tech Platform)

- Developed full-stack application supporting **1,000+ concurrent users** with **99.9%** uptime and responsive design
- Implemented JWT/Bcrypt authentication ensuring OWASP compliance and reducing vulnerability risks by **85%**
- Integrated Razorpay payment gateway processing **200+ transactions** with **zero failures** and **35% faster** checkout
- Tech Stack: MongoDB, Express.js, React.js, Node.js, JWT, Bcrypt, Cloudinary*

### FastStore (Distributed File System)

- Implemented a lightweight distributed file system with chunking, replication, and fault tolerance mechanisms
- Built high-performance storage architecture achieving **85% throughput efficiency** compared to local storage
- Created metadata management layer for efficient file lookup with **O(log n)** complexity using consistent hashing
- Implemented leader election protocol for metadata synchronization ensuring consistency across node failures
- Tech Stack: C++, Protocol Buffers, gRPC, Linux, Docker*

## AWARDS & ACHIEVEMENTS

- Merit Scholarship Recipient** - Maintained top 1% academic standing in CSE department, securing full tuition scholarship for all 8 semesters (2020-2024)
- Star Intern Award** - Recognized by Phoenix Global for valuable project contributions and effective teamwork
- CodeCraft Champion** - Secured 1st place among 200+ participants in GITAM University's annual coding competition
- GITAM Science Fair Winner** - Developed image classification system for plant disease detection with 94% accuracy