

# Srish Maulik

San Luis Obispo, CA | sguhamau@calpoly.edu | (805)-(215)-(5743) | green-river-03ad9281e.4.azurestaticapps.net

linkedin.com/in/srish-maulik-389033232

github.com/srishmaulik | digitalcommons.calpoly.edu/ceng\_surp/35 | srishmaulik.github.io/resume.html

## Education

### California Polytechnic State University

Expected Graduation Date

Bachelor of Science in Computer Science, Minor in Bioinformatics GPA: 3.7/4.0

Junior Graduating 2026

- Coursework: Data Structures and Algorithms, Computational Theory, Security and Software Engineering, Systems, Relational Databases
- Accolades: President's and Dean's List of Honors 2022 - present

## Experience

### iOS Software Developer | Swift, SwiftUI, Firebase, XCode

Feb 2025 – Present

PurpleTies, San Luis Obispo

- Maintaining iOS applications using Swift and SwiftUI.
- Integrating third-party APIs and services, including Firebase for data storage and real-time syncing.

### Deployment Testing Research Intern | AWS, EC2, Kubernetes, Docker, Deployment

Jun 2024 – Sept 2024

California Polytechnic State University

- Deployed Deathstar software microservices in AWS using EC2 instances and tested it with a load balancer.
- Microservices deployed in separate pods using Minikube Kubernetes across instances.
- Performance of distributed deployments vs. all microservices on a single instance proved to have a faster latency with heavier traffic (6000 req/s), proving that distributed platforms can handle concurrent requests faster.
- Evaluated latency and CPU usage to identify the most optimal deployment strategy and concluded that deployment using Kubernetes maintained significantly lower latency (6.82ms vs 11.76ms).

### Instructional Student Assistant (ISA) | C, Unix, Calculus

Oct 2024 – Present

California Polytechnic State University

- Working as an ISA tutor, tutoring 15+ students a week in general chemistry, calculus, and computer science.
- Employed as an ISA Teaching Assistant for Systems Programming, grading 30+ assignments and written tests.

### Software Engineer Intern | Python, SQL, MySQL, numpy, pandas, Metabase

Jul 2023 – Sept 2023

Unifynd, Mumbai

- Implemented mathematical tools (Sharpe Ratio, CAGR), to generate buying signals during algorithmic trading.
- Developed and executed SQL queries for data analysis and visualization to generate insights.
- Automated the extraction and processing of large datasets from CSV files to the company's Metabase server.

## Projects

### IoT Systems Modern Warehouse Project | Python, Cassandra, Docker, AWS, Kafka, Apache, Machine Learning

- Volunteer Research Assistant, developing a pipeline between real-time video sensors and a NoSQL database.
- Working on a fog computing architecture that emulates a modern warehouse.

### 3D Protein Structure Prediction | React, Pytorch, AI, Full Stack, Machine Learning, REST API, react-three-fiber

- Leveraged AlphaFold API's to depict the predicted 3D structure of the proteins, in a 3D interactive view.
- Developing a machine learning model to determine the hydrophilic or hydrophobic nature of the protein.

### SideQuest | Javascript, MongoDB, React, Express, AWS S3, Object Storage, Express, Node.js, Full Stack

- Developed a picture upload/browsing system, used S3 buckets for object storage, and made the system design.
- Designed front-end components, making it UI friendly, using libraries like modal.