

Shreyas Lad

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Summary

Computer Science student with a passion for software engineering, cloud computing, hardware design, and everything in between. Loves learning new things by building them from scratch.

Skills

Teamwork, Self Learning, Cloud Computing (AWS), APIs, Golang, Typescript, Python, C/C++, CI/CD, Git, Linux, Docker

Certifications

- AWS Certified Solutions Architect Associate (exp. Dec '25)
 - AWS Certified Cloud Practitioner
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Education

B.S. Computer Science

University of California, Santa Cruz
06/2026
3.8 Overall GPA

Experience

AI Engineer - Intern

Salestable AI
06/2023 - 09/2023

- Developed **SalesAssist**: an intelligent "sales copilot" which ingests company sales training and utilizes **ChatGPT** to provide company-specific assistance to sales teams
- Built a **serverless API** (w/ **API Gateway & Lambda**) in **Golang** to facilitate intelligent searching based on file contents
- Built an asynchronous file processing service using **Queues, Step Functions, & Lambda** to process and calculate embeddings for uploaded files
- Researched, implemented, and deployed vector databases to store embeddings
- Utilized AWS CDK (**infrastructure as code**) to deploy SalesAssist to multiple environments

Head of Software Engineering

Youth Coding Workshops
07/2021 - 07/2022

- Led the development of **global, low-latency REST APIs** to automate programming competitions
- Utilized AWS API Gateway, AWS Lambda, and AWS DynamoDB
- Automated the **real-time aggregation** of competition submission data, allowing YCW to track student progress and gaps in knowledge for **150+ students / semester**
- Raised \$1k in funding for YCW's infrastructure
- Configured monitoring tools (such as CloudWatch and BetterUptime) to **track service latency and uptime**
- Implemented security best practices: multi-account architectures, **SSO access**, security guardrails, and static code analyzers
- Utilized infrastructure as code (IaC) tools (**CDK & CloudFormation**) to standardize and automate infrastructure provisioning

- Created **CI/CD pipelines** to automate deployment to **dev, staging, and production environments**

Swarm Robotics Project Lead

Dublin High School Enviro-Tech Club

12/2021 - 05/2022

- Developed robots that functioned as a swarm to complete complex tasks
- Utilized Raspberry Pi Zeros, ran onboard image recognition and pathfinding w/ **Docker Swarm & Python**
- Robots streamed data to **AWS IoT** and established **MQTT** connections
- Developed **Linux daemon** to handle IoT device bootstrapping and initialization
- Automated & standardized the process of building and deploying OS images
- Worked extensively with **Linux, serverless computing, and real-time** data streaming

Head of Internal Affairs

Youth Coding Workshops

10/2020 - 07/2021

- Managed team of 10+ staff members to engage and challenge students
- Led the planning, design, and execution of 4 large-scale programming competitions
- Worked with tutors across multiple programming languages to implement demos during workshops
- Utilized **Airtable** to keep granular track of objectives, tasks, assignments, and deadlines to manage time and work
- Continuously brainstormed and implemented weekly interactive programming demos during workshops to keep students engaged
- Established after-school extracurricular programming classes at 3 local middle schools, on top of workshops already running on weekends

Recent Projects

Delta — Anti-Collision System — Python, Docker, AWS

- Developing an anti-collision system for vehicles
 - Streams car and sensor data (dashcam, throttle position, speed, gear, RPM, acceleration, etc) to the cloud in real time
 - **Serverless functions** send warnings to the device via **MQTT** topics
 - Learned to design **custom hardware** to interface with vehicle sensors
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