

Sourish Murthy

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EDUCATION

Arizona State University

Bachelor of Science in Computer Science

Tempe, AZ

Aug. 2020 – Dec 2023

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, Golang | **Frameworks:** Kubernetes, React, Node.js, Express.js, Flask, API

Developer Tools: Git, Azure, AWS, Google Cloud Platform, Docker, Helm, Ansible, VS Code, PyCharm, Eclipse

PROFESSIONAL EXPERIENCE

Software Engineer

Jan 2024 – Present

Privoro

Tempe, AZ

- Built core cloud platform features in production including automated device check-in/out, MDM integration, over-the-air (OTA) and bulk OTA updates, subscription management, and end-user alerting
- Lead the manufacturing Final Test function validating every device against manufacturing and security standards prior to shipment, covering audio, camera, sensor, and communications testing
- Designed and integrated an image-recognition system that replaced manual visual inspection, improving defect detection while cutting per-device test time from 22 to 12 minutes per station, roughly doubling daily throughput
- Lead NIAP Common Criteria certification of a network device across multiple Protection Profiles (Network Device, VPN Gateway, Firewall) plus Full Disk Encryption, spanning the full certification lifecycle: cryptographic diversity analysis for CSfC compliance, FIPS validation, PKI management, SFR testing, and technical evidence authoring, and developed AI-assisted tooling to accelerate testing and evidence generation

Software Engineering Intern

May 2022 – Dec 2023

Privoro

Tempe, AZ

- Analyzed database service for performance and stability issues. Implemented optimization strategies, enhancing system efficiency and reliability, resulting in a 500% throughput increase while improving maintainability.
- Led the effort in enhancing the Kubernetes infrastructure by designing and deploying an automated testing environment using Python and bash scripts, resulting in the identification and resolution of 7 critical bugs, a 50% reduction in cloud downtime, and a 95% decrease in testing time
- Optimized the cloud team's workflow by implementing and launching a custom shell tool, facilitating development and testing with Kubernetes commands, resulting in a boost in productivity and 40% reduction in onboarding time

HACKATHONS

Leaderify – ASU Hackathon | ReactJS, ExpressJS, API Integration, AWS Storage

Sep. 2021 – Sep. 2021

- Implemented the backend and the server side of the website using ReactJS and ExpressJS
- Achieved audio speech recognition functionality integrating with the AssemblyAI API
- Redesigned the storage system to use AWS S3 buckets to boost functionality

Tipper – CMU Hackathon Award Winner | Flask, NodeJS, Azure Storage

March 2021 – March 2021

- Implemented Microsoft's Azure database system and developed functionality with Cosmos DB
- Established the backend functionality using Flask and Node frameworks with Python and JavaScript

LEADERSHIP

Tech Lead | Google Student Developers Group

Sep. 2020 – May 2023

- Rebuilt team's **website** to align more with our goals and requirements
- Headed a team tasked with designing lesson plans to teach concepts like Git and OOP
- Organized workshops to help students grow knowledge and solve real problems around the university

VP Programming - FIRST Robotics | Newport Robotics Group

Sep. 2018 – July 2020

- World Championship Finalists 2019**
- Led a team of programmers of 30-40 people to develop and maintain the software of our team's robots
- Taught Java, Object Oriented Programming, Motion Profiling, Vision Tracking, and many more complicated topics to new recruits