

Sushanth Kashyap

+1 602 807 9195 | srkashy1@asu.edu | [linkedin.com/in/sushanth-kashyap/](https://www.linkedin.com/in/sushanth-kashyap/) | github.com/ethereal-keys

PROFESSIONAL SUMMARY

Computer Science graduate student with **2+ years** of **bare metal cloud** development experience at **Aruba Networks/HPE**. Proven expertise in **Kubernetes** automation, **cloud infrastructure**, and **full-stack development**. Strong background in building **fault-tolerant systems**, infrastructure monitoring, and **CI/CD pipelines** with hands-on experience in **Python, Java, C/C++**, and cloud technologies.

EDUCATION

Master of Computer Science

Arizona State University

GPA : **4.00**

Tempe, USA

Aug 2024 – May 2026

Coursework: Cloud Computing, Advanced OS, Advanced Graphics, Modelling and Simulation
Data Intensive Systems in ML, Natural Language Processing, Probability Circuits

WORK EXPERIENCE

Full Stack Web Engineer Assistant

EdPlus at ASU

Aug 2025 – Present

Tempe, USA

- Managed **AWS IAM** users, roles, and policies to enforce **secure access controls** and credential management via AWS Vault.
- Implement **CI/CD pipelines** for **cloud environments** ensuring reliability and **security compliance**.

Cloud Developer I

Aruba Networks, HPE

Aug 2022 – April 2024

Bangalore, India

- Worked on **bare metal platform** team responsible for full stack management from OS/packages through Kubernetes cluster setup, automation, and security.
- Prototyped **Kubernetes clusters** with RAM-based ETCD, enabling boot-time migration and persistent syncing
- Contributed to **fault-tolerant Kubernetes** node management framework with resumable operations, significantly reducing manual recovery effort.
- Automated **ETCD backups** with rolling retention, achieving **sub-hour recovery point objective** (RPO).
- Replaced HPE Redfish API with **IPMI drivers**, extending **hardware monitoring** support to 3rd-party servers.
- Built **automated CI test pipeline** with **dynamic ESXi VM provisioning** (1/3/5-node configurations), orchestrating parallel OS installations and **Kubernetes cluster setup** using **Python/Bash scripting**, reducing **deployment time** from 12 hours to **under 2 hours**.
- Fixed **critical production issues** and handled **customer escalations** as primary on-call engineer.
- Mentored** new team members and **documented** platform architecture and operational procedures.

SDE Intern

Aruba Networks, HPE

Jan 2022 – July 2022

Bangalore, India

- Developed **Prometheus exporters** & **6+ Grafana dashboards**, monitoring critical health/resource metrics
- Fixed **platform bugs** including **FIPS security** compliance requirements, improving stability and performance.

PROJECTS

ML-Enhanced SQL Query Engine with Velox | C++ Development

- Developed C++ **application** for **high-performance** fraud detection using Velox and **libtorch** CNN models

Real-Time Game Engine Style Transfer Plugin | C++ and Python Development

- Developed **Godot plugin** applying neural style transfer with **PyTorch** integration and real-time rendering

AWS-Based Video Face-Recognition Surveillance System| Full-Stack, Cloud

- Built a web application using AWS Lambda, EC2, SQS, S3, React, Laravel and PHP

XV6 OS Kernel Modules | C Development

- Implemented various functionality into the xv6 OS kernel - multithreading, on-demand paging, bootloading, etc

TECHNICAL SKILLS

Languages | Python, Solidity, JavaScript, PHP, Java, C/C++, Go, SQL, Bash, GDScript

Developer Tools | Git, Jenkins, JIRA, Github Actions

Cloud & Automation | Kubernetes, Prometheus, Grafana, CI/CD, Docker, Distributed Systems

Tools & Libraries | MariaDB, PyTorch, CUDA, React, ProcessingJS, Arduino, Godot Engine, Postman, Linux Utilities, Redux, NumPy, Python Unittest library