# Sushanth Kashyap

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## 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**, **machine learning** 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**　　　　　　　　　　**GPA : 4.00**　　　　**Tempe, USA**
Arizona State University　　　　　　　　　　　　　　　　　　　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**　　　　　　　　　　**Aug 2025 – Present**
EdPlus at ASU　　　　　　　　　　　　　　　　　　　　　　Tempe, USA

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

**Cloud Developer I**　　　　　　　　　　　　　　**Aug 2022 – April 2024**
Aruba Networks, HPE　　　　　　　　　　　　　　　　　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**　　　　　　　　　　　　　　　　　**Jan 2022 – July 2022**
Aruba Networks, HPE　　　　　　　　　　　　　　　　　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

**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, Terraform, Distributed Systems
**Tools & Libraries** | PyTorch, CUDA, React, Astro, Linux Utilities, Arduino, Godot Engine, Postman, ProcessingJS, Python Unittest library