

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**, 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
Coursework: Cloud Computing, Advanced OS, Advanced Graphics, Modelling and Simulation Data Intensive Systems in ML, Natural Language Processing, Probability Circuits		Aug 2024 – May 2026

WORK EXPERIENCE

Full Stack Web Engineer Assistant EdPlus at ASU	Aug 2025 – Present Tempe, USA
<ul style="list-style-type: none">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 Aruba Networks, HPE	Aug 2022 – April 2024 Bangalore, India
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Developed Prometheus exporters & 6+ Grafana dashboards, monitoring critical health/resource metricsFixed platform bugs including FIPS security compliance requirements, improving stability and performance.	

PROJECTS

ML-Enhanced SQL Query Engine with Velox C++ Development	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">Developed Godot plugin applying neural style transfer with PyTorch integration and real-time rendering	
AWS-Based Video Face-Recognition Surveillance System Full-Stack, Cloud	
<ul style="list-style-type: none">Built a web application using AWS Lambda, EC2, SQS, S3, React, Laravel and PHP	
XV6 OS Kernel Modules C Development	
<ul style="list-style-type: none">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 Unitest library