

Shikhar Gupta

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TECHNICAL SKILLS

Certification	AWS Solution Architect - Associate, AWS Cloud Practitioner
Languages & Libraries	Python, Golang, JavaScript, D3.js, NodeJS, ReactJS, Django, FastAPI, Bootstrap
Tools and Technologies	Ansible, Chef, Tableau, Docker, Git, Helm, Kubernetes, Ngnix, Jenkins, Kafka, Terraform
Databases	PostgreSQL, MongoDB, Neo4j, Redis, S3, DynamoDB, InfluxDB

EXPERIENCE

Arizona State University | 10 Months **08/2023 – Present**
Full-Stack Developer | NextJS, Typescript, Leaflet, CSS3, Tailwind Tempe, AZ

- Leading the development of a dashboard featuring a GIS-based mapping and analytics tool, facilitating a 360-degree view of the community, empowering users to build resilience, and utilizing actionable insights.

Hewlett Packard Enterprise (Aruba Networks) | 3 Years **01/2019 – 07/2022**
Software Engineer II | Python, Golang, Jenkins, PostgreSQL, Kubernetes, Microsoft Azure Bangalore, India

- Led the development of a cross-platform testing solution utilizing Python for a network security compliance tool, to enhance end-to-end testing efficiency and slash resource requirements by **80%**, expediting product deployment.
- Engineered an innovative Golang-based solution for deploying virtual machines across ESXi, Hyper-V, KVM, AWS, and Azure, resulting in a **60%** efficiency boost and streamlined process.
- Crafted a comprehensive solution using Python to detect vulnerabilities across product code databases, ensuring robustness in software development practices resulting in a **15%** reduction in potential security risks.
- Built a robust multi-threaded RESTApi Load Testing tool utilizing Jmeter, which contributed to a notable **10%** enhancement in product performance.
- Restructured the monitoring and logging infrastructure using Logstash, Kibana, Filebeat, Grafana, and InfluxDB, enhancing application performance visibility and reducing troubleshooting time by **50%**.
- Developed a Python-based automated UI testing solution using OpenCV, resulting in a **50%** reduction in QA workload.

EDUCATION

Master of Science in Computer Science **08/2022 – 05/2024**
Arizona State University | Tempe, AZ, USA GPA: 4.0/4.0

Courses - Cloud Computing, Data Visualization, Data Processing at Scale, Data Mining

Bachelor of Technology in Computer Science **08/2015 – 05/2019**
PES University | Bangalore, KA, India GPA: 3.7/4.0

Courses - Web Development, Data Structures & Algorithms, Object-Oriented Programming

PROJECTS

CloudVision | *Python, Golang, EC2, DynamoDB, Lambda, S3*

- Created a multi-tier architecture with instant auto-scaling capabilities, seamlessly adapting to dynamic workloads and ensuring efficient processing of **1,000+** requests per second.
- Leveraged AWS Lambda, SQS, and DynamoDB to achieve a processing speed of **50 frames per second** and efficiently route the inferences to S3 for analysis.

Firearm Watch | *Kafka, MongoDB, Docker, Terraform, EKS, Helm, Ansible*

- Integrated an object detection model using AWS Lambda and SageMaker, reducing pipeline inference time by **80%**.
- Implemented an ETL pipeline to handle continuous frame streams and efficiently route model inferences to S3 for retrieval and analysis.

KeyVault | *FastAPI, Kubernetes, Redis*

- Designed a key-value store system, handling 1,000+ requests per minute, achieving **99.99% uptime**, and scaling to manage 1TB+ data volumes, ensuring continuous reliability and availability.

EXTRACURRICULAR

- As a Teaching Aide, provided online tutoring for students enrolled in a Java course at Arizona State University.
- Received the **Excellence Award at Aruba**, showcasing expertise and exceptional contributions in the field.
- Secured the **2nd position** out of 100 teams in an Auction contest at IISC's Tech-fest Pravega 2016
- As a member of the IET Student Chapter at PESU, organized trainings, workshops, and hackathons for fellow students.