

# Shikhar Gupta

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## TECHNICAL SKILLS

**Languages:** Python, Golang, C++, Bash, HTML5/CSS3, JavaScript, PHP, SQL

**Libraries:** Boto3, Matplotlib, Plotly, NumPy, Pandas, PyTorch, Keras, TensorFlow,

**Frameworks:** Bootstrap, D3.js, Django, FastAPI, Flask, Leaflet, Material-UI, NodeJS, ReactJS

**Tools and Technologies:** Ansible, Chef, Docker, Git, Helm, Kubernetes, OpenStack, Nginx, Jenkins, Neo4j, MongoDB

**Certification:** AWS Certified Cloud Practitioner, AWS Certified Solution Architect

## EXPERIENCE

### Arizona State University

08/2023 – Present

Research Aide | NextJS, D3.js, Mapbox, Leaflet, Bootstrap, Flourish SDK

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.

### Aruba, a Hewlett Packard Enterprise Company

01/2019 – 07/2022

Software Engineer II | Python, Golang, K8, Terraform, Chef, Jenkins, Linux, PostgreSQL

Bangalore, India

- Led the development of cross-platform automated solutions, resulting in an 80% reduction in person hours and accelerated product delivery.
- Restructured the monitoring and logging infrastructure using Logstash, Kibana, Filebeat, Grafana, and InfluxDB, enhancing application performance visibility and reducing troubleshooting time by 50%.
- Engineered a scalable solution for deploying virtual machines across ESXi, Hyper-V, KVM, AWS, and Azure platforms, achieving a 60% increase in efficiency and streamlining the deployment process.
- Built a multi-threaded RESTapi Load Testing tool using Jmeter, resulting in a 10% enhancement in product performance.
- Developed a GUI-based testing tool leveraging OpenCV, resulting in a 50% reduction in QA personnel workload.

### Stylumia Intelligence Technology

06/2018 – 08/2018

Summer Intern | TensorFlow, Elasticsearch, HTML5/CSS3, Javascript

Bangalore, India

- Crafted a machine learning model for product classification and seamlessly integrated it with a search bar, yielding a 10% enhancement in search efficiency.

## EDUCATION

### Master of Science in Computer Science

08/2022 – 05/2024

Arizona State University | Tempe, AZ, USA

GPA: 4.0/4.0

**Courses** - Machine Learning, 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** - Artificial Intelligence, Android Development, Object-Oriented Programming

## PROJECTS

### Guardian Angel | Java, Kotlin, RoomsDB, Git, Heroku

08/2023 – 12/2023

- Designed an innovative Android app utilizing real-time data to deliver personalized well-being recommendations.
- Created a user-friendly interface using Material-UI, seamlessly integrating with a smartwatch.

### Firearm Watch | C++, Kafka, MongoDB, Docker, Terraform, EKS, Helm, Ansible

05/2023 – 08/2023

- 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.

### GenViz | Python, ReactJS, D3.js, GPT-3, Vega-Lite

01/2023 – 05/2023

- Created an automated platform utilizing Large Language Models (LLMs) to generate tailored high-quality visualizations based on user requirements and data characteristics; streamlined data visualization processes, resulting in a 30% reduction in time spent on report creation.

### PulmoAssist | Keras, TensorFlow, Pandas, NumPy, SciKit-learn

01/2023 – 05/2023

- Refined image classification, segmentation, and localization models for polyps, abnormalities in chest X-rays, and pulmonary embolisms using ResNet and Swin Transformers, improving the accuracy by 5% and reducing false positives.