

SHIKHAR GUPTA

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SUMMARY

I am a graduate student pursuing Masters in Computer Science at Arizona State University. I have worked as a Software Engineer at Aruba Networks for 3 years as a full-stack developer and I am well-versed in Python, C++, Docker, Kubernetes, ML frameworks, and Linux along with an in-depth understanding of SQL/NoSQL databases software systems.

EDUCATION

M.S. Computer Science, Artificial Intelligence August 2022 - Present
Arizona State University, Tempe, Arizona 4.00 GPA

B.S. Computer Science August 2015 - May 2019
PES University, Bangalore, India 3.74 GPA

TECHNICAL SKILLS

Machine Learning and AI Expertise: NLP (Natural Language Processing), Computer Vision, Transform Learning

Programming Languages and Libraries: Python, C++, Bash, PyTorch, NumPy, Pandas, NLTK

Front-End: HTML, CSS, Bootstrap, D3.js, JavaScript, jQuery, AJAX, AngularJS, React.js

Tools and Databases: Node.js, MySQL, MongoDB, RocksDB, Kafka, Docker, Kubernetes, AWS, Azure, OpenStack

PROFESSIONAL EXPERIENCE

Software Developer II at Aruba Networks, a Hewlett Packard Enterprise Jan 2019 - July 2022
Responsible for developing solutions to help debug over 100+ bugs and accelerate testing and development of the product to reduce the person-hours by 80%.

- Designed and developed a RESTApi Load Testing tool using **Python** and **JMeter** in a multithreaded environment that helped increase the performance of the product by 10%.
- Developed a tool to deploy virtual machines using **Python**, **Docker** and **Kubernetes** on KVM, Hyper-V, ESXi, Microsoft Azure and on **AWS** using **EC2**, **S3**, **CloudWatch** and **VPC**.
- Designed and developed a cross-platform GUI based testing tool using **Python**, **OpenCV**, and **HTML/CSS/JS**.

Summer Intern at Stylumia Intelligence Technology Pvt. Ltd. June 2018 - Aug 2018

- Developed an algorithm using **Tries** and integrated with **Elasticsearch's** autocorrection for a real-time autocomplete search bar that helped decrease the time to search for a product.
- Developed a State-of-the-Art NLP Algorithm for accurate classification of various types of products.

PROJECTS

Automated Visualization Generation using GPT-3 and Vega-Lite Spring 2023

- Developed an automated system that generates high-quality visualizations based on user requirements utilizing **GPT-3**, **ChatGPT** and **VegaLite**.

Scaling Graph Processing with Kubernetes, Kafka, and Neo4j Spring 2023

- Developed a scalable and highly available data processing pipeline capable of processing a continuous stream of documents using **Neo4j**, **Docker**, **Kafka**, and **Kubernetes**.

Medical Image Analysis using Machine Learning: Enhancing Disease Diagnosis and Treatment Spring 2023

- Created image classification, segmentation, and localization models for polyps, abnormalities in chest X-rays and pulmonary embolisms using **ResNet** and **Swin Transformers**.

WORK EXPERIENCE

Research Intern at CCBG (Cloud Computing and Big Data), PES University June 2017 - June 2018

- Worked on **OpenStack** and developed a middleware for object storage (Swift) and the orchestration unit (Heat) and published "*Orchestration Based Hybrid or Multi Clouds and Interoperability Standardization*" at IEEE CCEM (2018).