

SHIKHAR GUPTA

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SUMMARY

Computer Science graduate student with 3+ years of experience in software development, cloud computing, leadership, mentorship, and administrative duties.

EDUCATION

M.S. Computer Science, Artificial Intelligence 08/2022 - Present
Arizona State University, Tempe, Arizona GPA: 4.00
Courses: NLP, Data Visualization, Data Processing at Scale, Image Analytics, Data Mining

B.S. Computer Science 08/2015 – 05/2019
PES University, Bangalore, India GPA: 3.74
Courses: Machine Learning, Big Data, Data Science, Cloud Computing, Artificial Intelligence

TECHNICAL SKILLS

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

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

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

Tools/Databases: MySQL, PostgreSQL, MongoDB, RocksDB, Docker, Kubernetes, AWS, Azure, OpenStack

PROFESSIONAL EXPERIENCE

Software Developer II, Aruba Networks 01/2019 - 07/2022

- Spearheaded the development of innovative solutions that streamlined the testing and development process, resulting in an 80% reduction in person-hours and significantly accelerated product delivery.
- Implemented a comprehensive monitoring and logging infrastructure utilizing **Elasticsearch**, **Logstash**, **Kibana**, **Grafana**, and **InfluxDB**, improving application performance visibility and enabling efficient troubleshooting.
- Engineered and deployed a Python-based tool leveraging **Docker**, **Kubernetes**, and AWS services (**EC2**, **S3**, **CloudWatch**, **VPC**), resulting in streamlined and efficient virtual machine deployment.
- Designed a tool that leveraged AWS serverless technologies (**Lambda**, **S3**, **DynamoDB**) for scalable & cost-effective application deployment.
- Built a multithreaded RESTApi Load Testing tool using **Python** and **JMeter**, improving product performance by 10%.
- Created a cross-platform GUI-based testing tool using **Python**, **OpenCV**, **HTML/CSS/JS** which reduced the QA person-hours by 50%.

Summer Intern, Stylumia Intelligence Technology Pvt. Ltd. 06/2018 - 08/2018

- Engineered a **Trie-based** algorithm integrated **Elasticsearch's** autocorrection for real-time autocomplete search, enhancing search efficiency by 10%.
- Developed a State-of-the-Art NLP Algorithm for accurate classification of various types of products.

PROJECTS

Scaling Graph Processing with Kubernetes, Kafka, Neo4j 01/2023 - 05/2023

- Constructed a scalable and highly available data processing pipeline using **Neo4j**, **Docker**, **Kafka**, and **Kubernetes** to handle continuous document streams.

Medical Image Analysis using Machine Learning: Enhancing Disease Diagnosis 01/2023 - 05/2023

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

WORK EXPERIENCE

Research Intern at CCBBD (Cloud Computing & Big Data), PES University 06/2017 - 06/2018

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