

Shikhar Gupta

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EDUCATION

ARIZONA STATE UNIVERSITY MS IN COMPUTER SCIENCE

Aug 2022 - May 2024 | Tempe, AZ
GPA: 4.0 / 4.0

PES UNIVERSITY BS IN COMPUTER SCIENCE

Grad. May 2019 | Bengaluru, India
GPA: 3.74 / 4.0

CAMBRIDGE SCHOOL PCM WITH COMPUTER SCIENCE

Grad. May 2015 | Ghaziabad, India
Cum. Per: 95%

COURSEWORK

GRADUATE

Natural Language Processing
Data Visualisation
Data Processing at Scale
Fundamentals of Stat. Learning
Cloud Computing
Image Analytics & Informatics
Data Mining

UNDERGRADUATE

Advanced Machine Learning
Artificial Intelligence
Advanced Computer Networks
Operating Systems
Big Data
Compiler Design
Unix System Programming

SKILLS

Languages

- Advanced: Python, JavaScript
- Intermediate: C, C++, Bash
- Novice: GoLang, Java

Tools & Databases

- MySQL, MongoDB, RocksDB
- Docker, Kubernetes, AWS, Azure, OpenStack
- Jenkins, Git, Linux, Windows

Framework & Libraries

- PyTorch, NumPy, Pandas, OpenCV
- Node.js, AngularJS, React.js

Technologies

- HTML, CSS, Bootstrap, D3.js
- jQuery, AJAX

EXPERIENCE (3 YEARS)

ARUBA NETWORKS SOFTWARE ENGINEER

PYTHON | AWS | OPENCV | AZURE | DOCKER | HTML | POSTGRESQL | GRAFANA |

Jan 2019 - July 2022 | Bengaluru, India

- 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.

STYLUMIA SOFTWARE ENGINEERING INTERN

PYTHON | AWS | NLP | ELK

June 2018 - Aug 2018 | Bengaluru, India

- Developed an algorithm using Tries and integrated it with Elasticsearch's autocorrection for a real-time auto-completion the 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.

CLOUD COMPUTING AND BIG DATA RESEARCH INTERN

PYTHON | OPENSTACK

June 2017 - June 2018 | Bengaluru, India

- Worked with Prof. Dinkar Sitaram and Prof. Sudheendra Harwalkar to develop middleware for OpenStack's object storage (Swift) and the orchestration unit (Heat).

PROJECTS

AUTOMATED VISUALIZATION GENERATION

PYTHON | GPT3 | VEGALITE | D3.JS

- Developed an automated system that generates high-quality visualizations based on user requirements utilizing GPT- 3, D3.js and VegaLite.

ENHANCING DISEASE DIAGNOSIS USING MACHINE LEARNING

PYTHON | PYTORCH | OPENCV | RESNET | UNET | SWIN TRANS.

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

PUBLICATIONS

- [1] D. Sitaram, S. Harwalkar, C. Sureka, H. Garg, M. Dinesh, M. Kejriwal, S. Gupta, and V. Kapoor. Orchestration based hybrid or multi clouds and interoperability standardization. In *2018 IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)*, pages 67–71. IEEE, 2018.