

Abhishek Vaid

GRADUATE - MS IN COMPUTER SCIENCE

San Jose, CA

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Work Experience

San Jose State University

San Jose, CA

Student RESEARCH ASSISTANT - DEPT. OF COMPUTER SCIENCE

Aug 2022 - May 2023

- Researched applications of deep reinforcement learning (deep RL) in computer networking at SJSU Interconnect Lab
- Wrote documentation for existing code base and developed guide for research requirements and commonly used Python libraries.

ScoreMe Solutions Pvt Ltd

Gurgaon, India / Palo Alto, CA

FULL STACK PYTHON DEVELOPER

July 2020 - Aug 2021

- Implemented and maintained KYC software support infrastructure for client `www.ey.com` (Ernst and Young) in a Fintech capacity.
- Developed a microservice architecture-based Django Web application for Banking customer Identity document verification KYC using Python, Django Rest Framework, React and JavaScript. It Increased product profit generation by 70%.
- Programmed python selenium automation scripts for web scraping data, and for saving and querying data used MySQL, MongoDB, & Redis cache.
- Programmed Docker scripts and used AWS Lambda for containerization and serverless computing in cloud environments.
- Collaborated with cross-functional teams to ensure efficient CI/CD pipeline and release management.
- Hosted Bitbucket for managing code repositories, branching, merging, and for conducting code reviews.

Emerging India Group

Noida, India

PYTHON DATA ANALYST INTERN

Dec 2019 - Jul 2020

- Developed and maintained web analytics infrastructure for `www.ups.com` and 10+ UPS sub-sites
- Debugged and fixed 80+ infrastructure issues related to browser integration, cookies, and analytics infrastructure
- Designed automated video text extraction tool using Azure Computer Vision API
- Designed custom JavaScript (JS) tags and tracking scripts for advanced user analytics and reporting
- Optimized deployment and sprint schedule for APAC and NA teams

BT Group PLC (British Telecom)

Gurgaon, India / Atlanta, GA

Software Network Design Engineer Associate

July 2018 - May 2019

- Fiber Network Design Automation for `www.bt.com` : Developed a centralized network design automation web microservice application for graph mapping of network routing points using Python, Java, and SQL solving the problem of manual network graph mapping and recording. Saved more than 10 man-hours of manual recording per day per employee in the records team.

Education

San Jose State University

San Jose, CA

MASTER OF SCIENCE IN COMPUTER SCIENCE (MSCS)

Aug 2021 - May 2023

- Overall GPA: 3.6/4.0
- Courses: Design and Analysis of Algorithms, Topics in Machine Learning, Big Data Processing and ML, Cloud Computing

SRM Institute of Science and Technology University

Chennai, India

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING (B.TECH CS), Overall GPA: 3.5/4.0

Jul 2014 - May 2018

Skills

Programming Languages:	Python, Java, TypeScript, React, JavaScript and GraphQL
Data processing:	Selenium, Regex, Pandas, NumPy, Google vision, TensorFlow.
Cloud Technologies:	Apache Spark, Hadoop, Airflow, AWS (EC2, S3), GCP (Kubernetes Engine, App Engine, Big Query)
Databases:	MS SQL Server, Snowflake, MySQL, MongoDB, Redis Cache, AWS Dynamo DB.
Platforms/Tools:	Docker, Kubernetes, Git, JUnit, VMware vSphere, Adobe Experience Cloud, JIRA
Web Technologies:	Rest APIs, Django, RabbitMQ, Apache Kafka, HTML5, CSS, Node.js, XML, jQuery, Node.js

Projects

Cloud-based Document Management System | **AWS, Kubernetes, React, Node.js, MongoDB**

- Developed a cloud-based document management system hosted to AWS which used Kubernetes pods to automatically scale with a secondary MongoDB database in Cloud Atlas

Automated Political Bias Detection in News using Deep Learning | **BERT, Python, Apache Airflow**

- Built an automated deep learning (BERT model) pipeline which can automatically scrape news from the internet and detect bias in news text from popular online news source with 89% accuracy.

Publications

PYAUTOGUI HEADLESS Docker mode without display in Python | **Python, Java, Docker** [Link](#)

- Industry level problem of running PYAUTOGUI headless without a display, but I finally have made a solution for the issue. Developed a memory display inside docker to provide support for library in server display less environments. Please head over to my medium post using the link above.