Abhishek Shah

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Available: Summer/Fall 2023 Internship/Co-op

EDUCATION

Rochester Institute of Technology – ***Rochester, NY*** **August 2021 – December 2023**
Master of Science in Computer Science GPA: 3.67/4

Sant Gadge Baba Amravati University – ***Maharashtra, India*** **June 2016 – November 2020**
Bachelor of Engineering in Computer Science CGPA: 9.1/10

Relevant Coursework
Analysis & Design of Algorithms, Advanced OOP, AI, ML, Big Data, Networks & Distributed Systems, Cloud Computing, Databases

SKILLS

Languages: Python, Java, C++, JavaScript, SQL
Databases: MySQL, PostgreSQL, MongoDB
Web Technologies: HTML, CSS, REST, Node.js, React.js, Flask, Django
Tools and Libraries: NumPy, Pandas, Matplotlib, Seaborn, Git, JIRA, AWS
Certifications: AWS Certified Cloud Practitioner (CLF-C01)

EXPERIENCE

General Electric (GE) **January 2023 – May 2023**
Software Engineer Co-op *Rochester, NY*

- Developing automated scripts in Python to improve the current software development pipeline processes, with the aim of **increasing efficiency** and **reducing deployment times by 50%**.
- Implementing and thoroughly integrating new features to ensure seamless compatibility with the existing software system.
- Creating test cases and test suites using Python's Robot Framework to automate the testing of critical functionalities with a **coverage rate of 95%** and generate comprehensive test reports.
- **Skills:** Python, Node.js, Electron.js, React.js, CI/CD, Robot Framework, JIRA

Rochester Institute of Technology **January 2022 – December 2022**
Graduate Teaching Assistant *Rochester, NY*

- Tutored over **70 students** through weekly classes on a new course topic and its practical applications.
- Conducted recitation and code review sessions to guide students with Python and Scripting assignments and lab sessions resulting in a **92% retention rate of students** in the course.
- Engineered and evaluated solutions to computational problems by grading assignments on a bi-weekly basis.
- **Skills:** Python, HTML, CSS, JavaScript, jQuery, AJAX

Quant Binary **August 2020 – January 2021**
Software Engineer Intern *Maharashtra, India*

- Developed algorithmic trading strategies using Python and C++ for stock trading in the US market.
- Achieved a **profit of $300** on a single trading day with an investment of $700 and achieved an **average monthly return of 20%**.
- Improved the design of strategies using backtesting with **80% accuracy** and optimization resulting in a **25% performance boost**.
- Created Python scripts to modernize the process of loading the newest algorithm, conducting tests, and generating daily reports, leading to improvement in trading efficacy as measured by successful trade ratio.
- **Skills:** Python, C++, Alpaca API

PROJECTS

Podcast Summarier | *Python, Flask, AWS (EC2, S3, Lambda, Terraform)* **December 2022**

- Designed an architecture on AWS for implementing an extractive summarization and sentiment analysis model that automatically generates brief summaries for audio podcasts with an **accuracy rate of 87%**.
- Created a web application using Flask to display the summarized transcript with an **average response time of 200ms**.

IMDb Data Engineering and Management | *PostgreSQL, MongoDB, Apache Spark, Matplotlib, Python* **April 2022**

- Structured a top-down relational database with 21 million rows and constructed performant PostgreSQL queries that **boosted information retrieval speeds by a factor of 1.5**.
- Composed queries for transferring data to MongoDB and developed MongoDB pipelines to query the data.
- Pre-processed and cleaned the database to discover correlations by applying frequent itemset mining resulting in a 40% increase in the accuracy of correlations identified.

Wikipedia Language Classifier | *Python, Decision Trees, AdaBoost* **March 2022**

- Performed the categorization of a set of sentences into English or Dutch through feature engineering, by employing decision trees and AdaBoost techniques solely in Python.
- Generated features by using 25,000 sentences from Wikipedia to train the model for optimum accuracy.
- Demonstrated an **accuracy of approximately 98%** in correctly classifying sentences.

Intelligent Path Finder Using A* Algorithm | *Python* **March 2022**

- Implemented an A* heuristic search algorithm on a topological map that includes terrain information and elevation contours and a defined sequence of locations to visit.
- Determined the optimal paths by finding the most efficient way to move from one point to another.