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: 3.67/4.0

Sant Gadge Baba Amravati University - Maharashtra, India **June 2016 – November 2020**
Bachelor of Engineering in Computer Science CGPA: 9.1/10.0

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: PostgreSQL, MySQL, MongoDB
Web Technologies: HTML, CSS, REST, NodeJS, ReactJS, Flask, Django
Tools and Libraries: Git, JIRA, NumPy, Pandas, Matplotlib, Seaborn, AWS
Certifications: AWS Certified Cloud Practitioner (CLF-C01)

WORK EXPERIENCE

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

- Developing automated scripts in Python to enhance the current software development pipeline processes, with the goal of increasing efficiency and reducing deployment times **by half**.
- Implementing new features and ensuring they are fully integrated and compatible with existing software.
- Utilizing the Python Robot Framework to create test cases and test suites for automating the testing of all critical functionalities with a **coverage rate of 95%** and generating detailed test reports.
- **Technologies:** Python, NodeJS, ElectronJS, ReactJS, Robot Framework, JIRA

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

- Tutored over **70 students** by conducting weekly classes on a new course topic and its practical applications.
- Executed recitation and code review sessions to mentor students with tasks and coursework related to Python and Scripting and managed lab sessions resulting in a **high retention rate of students** in the course.
- Developed and assessed solutions to computational problems by grading assignments twice a week.
- **Technologies:** 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 trading stocks in the US market.
- Utilized techniques like backtesting, forward testing, and optimization to design robust trading strategies.
- Achieved a **profit of +9%** within a single trading day and an average monthly **return on investment of 7%**.
- Created scripts in Python to automate the process of loading the latest algorithm, running tests, and generating daily reports resulting in a **30% increase in trading efficiency**.
- **Technologies:** Python, C++, Alpaca API

PROJECTS

Podcast Summarizer — *GitHub* **December 2022**

- Developed an architecture on AWS for implementing an extractive summarization model that will automatically generate brief summaries for audio podcasts with an **accuracy rate of 85%**.
- Implemented a sentiment analysis model to identify the sentiment of the summarized text.
- Created a web application using Flask to display the summarized transcript with an **average response time of 200ms**.
- **Technologies:** Python, Flask, AWS (EC2, S3, Lambda, Comprehend, Transcribe, Terraform)

IMDb Data Engineering and Management — *GitHub* **April 2022**

- Developed a top-down relational database with **21 million rows** and constructed performant PostgreSQL queries that **boosted information retrieval speeds by 50%**.
- Composed queries for transferring data to MongoDB and developed MongoDB pipelines to query the data.
- Pre-processed and cleaned the database to discover correlations in the data by applying frequent item-set mining techniques such as the Apriori algorithm and K-Mean clustering.
- **Technologies:** PostgreSQL, MongoDB, Apache Spark, Matplotlib, Python

Wikipedia Language Classifier — *GitHub* **April 2022**

- Implemented decision trees and AdaBoost techniques entirely in Python to classify a set number of sentences as English or Dutch, using feature engineering.
- Generated features by using 25,000 sentences from Wikipedia to train the model for optimum accuracy.
- Successfully classified sentences with approximately **98% accuracy**.
- **Technologies:** Python