Abhishek Shah

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Available: Summer/Fall 2023 Internship/Co-op

EDUCATION

Rochester Institute of Technology – **Rochester, New York** **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, AI, ML, Big Data, Computer Networks, Distributed Systems, Cloud Computing, Databases, Robotics

SKILLS

Programming Languages: Python, Java, C++, JavaScript, SQL
Database and Cloud: MySQL, PostgreSQL, MongoDB, AWS
Web Development: HTML, CSS, REST API, Node.js, React.js, Flask, Django
Software Development: Git, Agile, Scrum, Selenium, JIRA, Confluence, CI/CD, TCP/IP, Linux
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, React.js, CI/CD, Robot Framework, Agile, Scrum, 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 twice a week.
- **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 **$300 profit** on a single trading day with a $700 investment and maintained an **average monthly return of 20%**.
- Improved strategy design through **80% accurate backtesting** and optimization resulting in a **25% performance boost**.
- Employed Python scripts to transform algorithm loading, testing, and reporting, resulting in heightened trading efficacy.
- **Skills:** Python, C++, Machine Learning, Alpaca API

PROJECTS

Podcast Summarier | Python, Flask, Machine Learning, NLP, 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 | MySQL, MongoDB, PySpark, Matplotlib, Python, Java **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, Machine Learning, NLP **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.