Abhishek Shah

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Available: Fall 2023 SDE Co-op, Spring 2024 SDE Full-time

EDUCATION

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

Relevant Coursework
Analysis & Design of Algorithms, Machine Learning, Big Data, Computer Networks, Distributed Systems, Cloud Computing, Databases, Robotics

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

SKILLS

Programming Language: Python, Java, C++, JavaScript, SQL
Database and Cloud: MySQL, MongoDB, PostgreSQL, AWS
Web Development: Node.js, React.js, REST APIs, Flask, Django, HTML, CSS
Software Development: Git, Linux, Selenium, Docker, Confluence, JIRA, CI/CD, TCP/IP
Certifications: AWS Certified Cloud Practitioner (CLF-C01)

EXPERIENCE

General Electric (GE) **January 2023 – August 2023**
Software Engineer Intern 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%**.
- Revamping legacy code with React.js and Node.js for improved software performance and seamless integration.
- 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, 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, AWS (EC2, S3, Lambda, Terraform), ReactJS, NLP **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, Apache Spark, Matplotlib, Python **April 2022**

- Structured, optimized and scaled a top-down MySQL database with 21 million rows, **increasing information retrieval speeds by 1.5x** and enabling efficient data utilization.
- Developed efficient MongoDB data transfer queries and pipelines to extract, process, and analyze data for valuable insights.
- Leveraged Apace Spark and Matplotlib to identify data patterns, and visualize key insights which contributed to a **20% increase in project efficiency** and a **15% improvement in project outcomes**.

Wikipedia Language Classifier | Python, Machine Learning, NLP **March 2022**

- Employed advanced feature engineering, decision trees, and AdaBoost techniques in Python to train a machine learning model for accurately categorizing a set of sentences as English or Dutch.
- Achieved an **accuracy of approximately 98%** in correctly classifying sentences, demonstrating the effectiveness of the feature engineering and classification techniques used.