Abhishek Shah

Rochester, NY · 585-351-9899 · as5553@rit.edu · linkedin.com/in/abhishekshah3010 · github.com/abhishekshah3010

EDUCATION

Rochester Institute of Technology – Rochester, NY · **August 2021 – December 2023**
Master of Science, Computer Science · **GPA: 3.7/4**
Relevant Coursework
Analysis & Design of Algorithms, Machine Learning, Big Data, Distributed Systems, Cloud Computing, Computer Networks, Database Design

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

SKILLS

Programming Language: Python, C++, Java, JavaScript, SQL
Database and Cloud: MySQL, MongoDB, PostgreSQL, AWS
Web Development: Node.js, React.js, Express.js, REST APIs, jQuery, Flask, Django, HTML, CSS
Tools/Technologies: Git, Linux, Apache Kafka, Selenium, Docker, Jira, TCP/IP
Certifications: AWS Certified Cloud Practitioner (CLF-C01)

EXPERIENCE

General Electric (GE) · **January 2023 – August 2023**
Software Engineer Intern · Rochester, NY

- Collaborated with cross-functional teams to strategize and implement process improvements, **reducing defects by 40%**.
- Revamped legacy code using **React.js** and **Node.js**, resulting in enhanced performance and seamless integration.
- Accomplished **100% regression test coverage** by following test-driven-development using Python's **Robot Framework**.
- Successfully migrated the on-premise application to **AWS** using EC2, S3, RDS, and Lambda, achieving **30% cost reduction**.
- **Accelerated deployment time by 2x** by developing **Python** scripts, optimizing CI/CD pipeline processes.
- Followed **agile** software development process and enhanced project execution through active participation in sprint planning.
- **Skills:** Python, JavaScript, Node.js, React.js, AWS, Robot Framework, Agile

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

- **Tutored 200+ students** in weekly classes, focusing on various course topics with a strong emphasis on practical applications.
- Facilitated recitation and code review sessions to assist students with **Python** and **web development** assignments.
- Conducted lab sessions with hands-on exercises, enhancing students' comprehension of **web technologies**.
- **Skills:** Python, 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 **consistent profitability** delivering an **average monthly return of 5%** over 4 months.
- Co-conceptualized and implemented a custom end-to-end testing framework, **reducing production bugs by 50%**.
- Streamlined algorithm loading, testing, and reporting processes using Python scripts, **improving performance by 25%**.
- **Skills:** Python, C++, Alpaca API

PROJECTS

Podcast Summarizer | Python, AWS (EC2, S3, Lambda, Terraform), Keras, React.js · **December 2022**

- Developed an **AWS** solution for automatic summarization and sentiment analysis of audio podcasts, achieving **87% accuracy**.
- Employed Keras to develop and deploy a powerful summarization model, generating concise summaries for audio podcasts.
- Engineered a web application using **React.js** to display summarized transcripts with an **average response time of 200ms**.

IMDb Data Engineering and Management | MySQL, MongoDB, Apache Spark, Java · **May 2022**

- Optimized and scaled a **MySQL** database with 21 million rows, **improving information retrieval speeds by 1.5x**.
- Streamlined data extraction and processing with **MongoDB** queries and pipelines, enabling efficient data management.
- Leveraged **Apache Spark** to identify data patterns and key insights, contributing to a **15%** improvement in project outcomes.

Content-Based Image Retrieval | Python, MongoDB, Apache Hadoop, Flask · **March 2022**

- Created a high-performance and powerful image retrieval software platform using **Flask** and **Python**.
- Achieved a remarkable **5x improvement** in image retrieval, leveraging a **NoSQL** distributed database.
- **Boosted speed and efficiency by 15%** through efficient map-reduce parallel programming on a three-node **Hadoop** cluster.