

# ABHISHEK SHAH

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## EDUCATION

**Rochester Institute of Technology – Rochester, NY**

**August 2021 – December 2023**

Master of Science, Computer Science

**GPA: 3.7/4**

### Coursework

Analysis & Design of Algorithms, Machine Learning, Big Data, Distributed Systems, Cloud Computing, Computer Networks, Cryptography

**Sant Gadge Baba Amravati University – Maharashtra, India**

**June 2016 – November 2020**

Bachelor of Engineering, Computer Science

**CGPA: 9.1/10**

## SKILLS

**Programming Language:** Python, Java, JavaScript, SQL

**Database and Cloud:** MySQL, MongoDB, PostgreSQL, AWS, Google Cloud

**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 devise 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**.
- Optimized software development pipeline processes by developing **Python** scripts, **reducing deployment time by half**.
- Followed **agile** software development process and contributed to sprint planning and retrospective meetings.
- **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** over **200 students** in weekly classes, focusing on various course topics with a strong emphasis on practical applications.
- Conducted recitation, code review, and lab sessions to guide students on **Python** and scripting assignments, including **JavaScript**, **jQuery**, and **Ajax**.
- Achieved an exceptional **92% student retention** rate through effective teaching methodologies.
- **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 consistent positive returns by maintaining an average **monthly return of 5%** over a 4-month period.
- Co-conceptualized and implemented a custom end-to-end testing framework, resulting in a **50% reduction** in production bugs.
- 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**.
- Engineered a web application using **React.js** to display summarized transcripts with an **average response time of 200ms**.
- Enhanced the web app with features such as search, bookmarking, translation, and personalized recommendations.

**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 software platform using **Flask** and **Python** for performing image retrieval in a distributed environment.
- **Boosted** image retrieval performance by **5x** through the utilization of a NoSQL distributed database and the application of map-reduce parallel programming on a three-node Hadoop cluster.