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, Computer Networks, Distributed Systems, Cloud Computing, Databases, Robotics

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, REST, Flask, Django, HTML, CSS
Tools/Technologies: Git, Linux, 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, 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 **$300 profit** on a single trading day with a $700 investment and maintained an **average monthly return of 20%**.
- Co-conceptualized a custom end-to-end testing framework, **decreasing bug incidence** in production by **50%**.
- Employed Python scripts to transform algorithm loading, testing, and reporting, resulting in a **25% performance boost**.
- **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.