

ABHISHEK SHAH

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EDUCATION

Rochester Institute of Technology, New York

Master of Science in Computer Science

August 2021 – May 2024

GPA: 3.7/4

Coursework

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

Sant Gadge Baba Amravati University, India

Bachelor of Engineering in Computer Science

June 2016 – November 2020

CGPA: 9.1/10

SKILLS

Programming Languages	Python, Java, C++, JavaScript, SQL
Databases	MySQL, MongoDB, PostgreSQL, Cassandra
Cloud Platform	AWS (Terraform, Lambda, S3, API Gateway, DynamoDB, CloudWatch)
Web Tools & Frameworks	Node.js, React.js, Express.js, REST APIs, Flask, Django, HTML, CSS
Tools & Technologies	Git, Docker, Selenium, Linux, Jira, TCP/IP

WORK EXPERIENCE

General Electric (GE)

Software Engineer Co-op

January 2023 – Present

Rochester, NY

- **Reduced system bottlenecks by 40%** through the implementation of a **microservices** architecture in **Node.js**.
- Transformed legacy interfaces with advanced **React** table components, elevating user experience and supercharging application responsiveness.
- **Accelerated deployment time by 2x** by developing Python scripts and optimizing **CI/CD** pipeline processes.
- **Achieved 100% regression** test reliability for MDS TransNET (a long-range wireless communication system) using Robot Framework, maintaining performance in tough scenarios.
- Enhanced project outcomes by actively engaging in **Agile methodologies** and sprint planning sessions.

Rochester Institute of Technology

Graduate Teaching Assistant

January 2022 – December 2022

Rochester, NY

- **Mentored 200+ students** in **Python**, emphasizing object-oriented concepts and enhancing understanding through targeted code reviews.
- Led lab sessions centered on hands-on exercises, bolstering students' grasp of web technologies like **JavaScript**, **jQuery**, and **AJAX**.

Quant Binary

Software Engineer

August 2020 – May 2021

Maharashtra, India

- Developed algorithmic trading strategies using **Python** and **C++** for stock trading in the US market.
- Delivered **consistent profitability** delivering an average **monthly return of 5%** over 4 months.
- Architected an automated **Selenium**-based testing strategy, **slashing production errors by 50%**.
- Deployed a **FastAPI**-based backend, **slashing API response times to under 50ms** and streamlining API endpoint integration.

ACADEMIC PROJECTS

Podcast Summarizer | Python, AWS, React.js, Keras

December 2022

- Engineered an AWS-driven solution for podcast summarization using **Keras**, achieving **87% accuracy**, and deployed via **AWS Lambda** with metadata in **DynamoDB**.
- Presented summaries via a **React.js** interface on **AWS S3**, with the infrastructure orchestrated seamlessly using **Terraform**.

IMDb Data Engineering and Management | MySQL, MongoDB, Apache Spark, Java

May 2022

- Optimized IMDb's **MySQL** database with 21 million rows, **enhancing retrieval speeds by 1.5x**, and streamlined data management using **MongoDB**.
- Leveraged **Apache Spark** to discern key data insights, improving project results by 15%, grounded on a robust **Java** framework.

Content-Based Image Retrieval | Python, MongoDB, Apache Hadoop, Flask

March 2022

- Developed an advanced image retrieval platform leveraging **Flask** and **Python**; **achieved a significant 5x improvement** in retrieval rates through MongoDB's **NoSQL** framework.
- **Amplified system performance by 15%** by deploying map-reduce on a three-node **Apache Hadoop** cluster.