Rahul Ashwin Sheth

LinkedIn | GitHub | rsheth9@asu.edu | (929) 542-7892

EDUCATION

Master of Science in Computer Science **May 2024**
Arizona State University (GPA: 4.0/4.0) **Tempe, AZ**
Relevant Coursework: Data Intensive Systems in Machine Learning, Statistical Learning Theory, Foundation of Algorithms, Data Processing at Scale, Knowledge Representation and Reasoning, Mobile Computing

Bachelor of Engineering in Computer Engineering **July 2021**
Gujarat Technological University (GPA: 9.07/10) **Ahmedabad, India**
Relevant Coursework: Data Structures, Operating Systems, Software Engineering, Computer Networks, OOP with JAVA

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, C#, Go, SQL, HTML/ CSS
Framework/Tools: Apache Kafka, Spring Integration, React.js, AWS, Django, Typescript, Android Studio, ELK Stack, AngularJS, Docker, Kubernetes, MongoDB, GraphQL, GIT, MySQL, PostgreSQL, Tableau, Linux Programming, TensorFlow, Keras

PROFESSIONAL EXPERIENCE

Software Engineer Intern **June 2023 - Present**
Lumen Technologies **Denver, CO (Remote)**
- Engaging in the construction of a **Data Marketplace** platform leveraging Java and Spring Boot, augmenting real-time data transmission and fortifying system reliability through a data pipeline utilizing Confluent Kafka and Kafka Connectors.
- Orchestrating an intuitive user interface harnessing the power of React and deploying GraphQL for efficient data retrieval, fostering a substantial **20% reduction** in server response times.

Associate Software Engineer **September 2021 - July 2022**
Accenture **Bangalore, India**
- Contributed to the design of a back-end server with Java, Spring Boot, and other cloud technologies for a **Message Processing Framework**. Optimized performance by **30%** through Kafka partitioning for concurrent processing, and refactoring into two microservice components, improving database retrieval efficiency by **20%** and expediting message transformation/validation.
- Effectively designed and implemented automated build and deployment pipelines for 5 web applications and 10 microservices using CI/CD tools such as Jenkins, Ansible, and Puppet, resulting in a **50%** reduction in deployment time, a **30%** improvement in overall efficiency, and consistent server configurations across 3 different environments.

Project Trainee **November 2020 - February 2021**
Gateway Group of Companies **Ahmedabad, India**
- Deployed ReactJS dashboard for layout management allowing seamless configuration of Android mobile layouts for customers.
- Collaborated with developers to optimize database design and query performance, resulting in a **20% decrease** in average query response time. Successfully migrated a legacy Oracle database to **MongoDB**, reducing hardware costs by **50%** and increasing query throughput by **30%**.

Software Engineer Intern **August 2019 - October 2020**
Capitalist Softech Pvt Ltd **Surat, India**
- Constructed RESTful APIs with Django models, integrated with frontend team, executed unit tests with **95%** coverage and response time of **200ms**.
- Led intern team to configure ELK stack to aggregate logs from multiple systems and applications, analyzed utilizing Kibana visualization, improving troubleshooting by **25%** and efficiency by **15%**.

ACADEMIC PROJECTS

ML Log Analysis and Privacy Detection **January 2023 - April 2023**
- Implemented and executed 3 ML workloads in Scala, utilizing Apache Spark for efficient log data collection from open-source machine learning pipelines, processing over **500 GB** of log data for analysis.
- Utilized Google DLP and Microsoft Presidio to analyze log messages, effectively identifying and mitigating 98% of privacy risks, ensuring data privacy and compliance for **5000+ users**.

Machine Learning Based Stock Price Prediction **July 2020 - May 2021**
- Built a software that predicts future price of stock that utilize Moving average, High, Low, and Volume data of stock extracted from Yahoo Finance API. Formulated time-series forecasting models using Linear Regression and LSTM algorithms.
- Concluded LSTM had better performance, achieving an RMSE of **0.43**, whereas prediction system achieved accuracy of **96.6%**.

Weather Checker **June 2019 - January 2020**
- Created a dynamic weather forecasting site leveraging React JS, Redux, and Materialize CSS and hosted it on the Heroku server.
- Accomplished functionality of switching different temperature units by fetching data through various API calls.

LEADERSHIP & INVOLVEMENT

- Qualified to the Onsite Finals of **ACM ICPC** Amritapuri 2020, ranking **122** among **1543 teams** in onsite finals.
- Planned and Organized **8** open Chess Tournaments, managing **230+** participants within ASU Chess Club (2022).
- Spearheaded **4**-members team in **final round** of Smart Gujarat for New India **Hackathon** (2020) to develop an accident detection system to detect and classify accidents; Secured **3rd** rank in the competition, competing against over **200** other teams.