Mohammed Ilyas Ahmed

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EDUCATION

San Jose State University, San Jose, USA

Master of Science in Software Engineering

Jawaharlal Nehru Technological University, Hyderabad, India

Bachelor of Technology in Computer Science & Engineering

Aug 2022 – May 2024 Current GPA: 3.45 Jun-2016 – Sep 2020

SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, Go

Backend Technologies: NodeJS, ExpressJS, MongoDB, Mongoose, Rest APIs, DOM manipulation, Apache Tomcat

Front end and Containerization: ReactJS, Angular, Docker, Kubernetes, AWS, Git, Shell Scripting, HTML, CSS, Bootstrap

Big Data and Machine Learning: Pandas, Pig, Redis, Hadoop, Hive, Spark, Elastic Search, TensorFlow

Database: MySQL, MongoDB, Dynamo DB, S3, Relational Databases

WORK EXPERIENCE

San Jose State University, San Jose, California

Jan 2023 - Present

Instructional Student Assistant - CMPE 287: Software Quality Assurance and Testing

Designed curriculum, conducted lectures, facilitated discussions, graded and delivered course materials.

Tata Consultancy Services, Hyderabad, India

Associate Software Developer

Feb 2021 - Jun 2022

- Developed high-performance MERN stack applications with a focus on Domain and Test-Driven Development.
- Led a project migrating from monolithic to microservices, reducing infrastructure costs by 50%.
- Designed and effectively implemented **RESTful APIs**, resulting in a substantial **25%** boost in data efficiency.
- Implemented authentication and authorization, enhancing security and reducing unauthorized access.
- Utilized MongoDB for database design, schema creation, and data modeling across 7 projects.
- Optimized applications for enhanced performance and scalability, leading to a 30% decrease in page load times.
- Utilized Kubernetes for efficient container orchestration, ensuring seamless application deployment and scaling.

Web Tek Labs, Hyderabad, India

Sep 2020 - Dec 2020

Software Engineering Intern

- Developed a management and administrative console for an internal React-based application using AWS Lambda,
 S3, and DynamoDB. This innovation not only improved employee productivity by optimizing resource usage but also laid the groundwork for enhanced scalability.
- Collaborated cross-functionally to gather requirements, resulting in a user-centric design and a 20% improvement.

PROJECTS AND PUBLICATIONS

Health Club Management System (React, MongoDB, NodeJS, AWS)- GitHub

Apr 2023

- Developed a Gym Management System, using React and NodeJS increasing gym operational efficiency by 20%.
- Attained 98% user satisfaction via real-time AWS and MongoDB analytics for data management.

Robot Management System (Angular, MongoDB, ExpressJS, AWS) - GitHub

Dec 2023

- Enhanced user engagement by **35%** via an intuitive user dashboard for robot selection and simulation.
- Reduced downtime by 20% using AWS CloudWatch for real-time AWS Robomaker monitoring.

Software QA Testing for Mobile Application (Java, Selenium, AI testing) - <u>GitHub</u>

Dec 2022

- Led cross-functional team, evaluated 4 AI food recognition apps, achieved 82% pass rate in 200 test cases.
- Documented 27 critical bugs, improving app accuracy under diverse conditions and improved its accuracy.

Recognition of Handwritten Digits (Python, ML, Data Visualization) - GitHub

May 2022

- Utilized SVM and CNN to achieve a global accuracy of 93.043% for classifying Handwritten Digits.
- Trained a model for banks and postal services using the MNIST dataset with 70,000 handwritten digits.

Published Research Paper Website link: https://ijariie.com/FormDetails.aspx?MenuScriptId=201755

CERTIFICATIONS AND LEADERSHIP POSITIONS

Worked as Chief coordinator for CMPE department at ISO - SJSU

- San Jose State University

AWS Certified Cloud Practitioner