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

GPA: 3.9

SKILLS

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

Backend Technologies: NodeJS, ExpressJS, MongoDB, 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.

Dow Chemicals (Tata Consultancy Services), Hyderabad, India

Jun 2021 - Jun 2022

Software Engineer

- Developed "Credit Insights", a robust CRUD application, to support Dow Chemical's IT Governance team.
- Employed a tech stack including React.js, Docker, and AWS EC2 Microservices to streamline credit limit tracking across various currencies.
- Designed a user-friendly customer portal that seamlessly integrates **React** front-end components with **Express.js** and **MongoDB** through **RESTful APIs**, providing clients with an organized overview of their account portfolios.
- Implemented rigorous ES6 lint checks, resulting in a significant 90% reduction in code violations, thus improving
 overall code quality. The project followed Agile methodologies and used JIRA for task management.
- Enforced minimum unit test coverage using **Jest**, significantly boosting the overall test coverage by an impressive **75%.** This approach ensures code robustness and reliability.

Tata Consultancy Services, Hyderabad, India

Feb 2021 - May 2021

Software Engineer Intern

- Developed UI to improve employee data management in IBM's Information Governance Catalog (IGC).
- Used REST APIs, Angular for frontend, and Node.js for backend, with XML and MySQL for data handling, improving employee management by 50% in the banking sector.
- Designed a feature for bulk banking data import to IGC's DB2 database using **Java**, IntelliJ IDE, **Apache Camel** Framework, and REST APIs, reducing manual workload by **90%**.
- Led JUnit testing with **Mockito** and **Power Mock**, achieving 100% test coverage. Managed codebase deployment across environments using virtual machines like **VirtualBox** and **VMware**.

PROJECTS AND PUBLICATIONS

Health Club Management System (MERN Stack, AWS ELB) - 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, NodeJS, AWS EC2)- 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 Applications (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 for enhanced user experience.

CERTIFICATIONS AND LEADERSHIP POSITIONS

Worked as Chief coordinator for CMPE department at ISO - SJSU

- San Jose State University

AWS Certified Cloud Practitioner

- Udemy