

Mohammed Ilyas Ahmed

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EDUCATION

San Jose State University, San Jose, USA

Aug 2022 – May 2024

Master of Science in Software Engineering

Current GPA: 3.45

Jawaharlal Nehru Technological University, Hyderabad, India

Jun-2016 – Sep 2020

Bachelor of Technology in Computer Science & Engineering

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.
- 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 **MySQL** 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).
- Utilized built-in **REST APIs**, **Angular** (frontend), **Node.js** (backend), **MongoDB**, resulting in a 50% boost in employee management capabilities for banks.
- Designed a feature to optimize bulk banking data import into IGC's **DB2** database, reducing manual workload by a significant **90%**.
- Led **JUnit** testing, achieving comprehensive test coverage. Managed code deployment using **virtual machines**.
- Added bulk processing to IGC for efficient Lineage data manipulation and **metadata management**.

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) - [GitHub](#)

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.

CERTIFICATIONS AND LEADERSHIP POSITIONS

- Worked as Chief coordinator for CMPE department at ISO - SJSU
- AWS Certified Cloud Practitioner

- San Jose State University

- Udemy