

Mohammed Ilyas Ahmed

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EDUCATION

Masters of Science, Software Engineering | GPA:3.45

Aug 2022 - May 2024

San Jose State University, San Jose, CA

Relevant Courses: Software Systems Engineering, Cloud Technologies, Virtualization

Bachelors of Technology, Computer Science and Engineering | GPA:3.9

Jun-2016 - Sep 2020

Malla Reddy Engineering College, Hyderabad, India

Relevant Courses: Data Structures, Design and Analysis of Algorithms, Operating Systems

SKILLS

Programming Languages: Python, C/C++, Java, UNIX/LINUX, Shell scripting

Full Stack: HTML, CSS, Bootstrap, JavaScript, jQuery, Node.js, Express.js, MongoDB, React.js, REST API's, Flask

Tools/Frameworks: Docker, Jenkins, AWS, Kubernetes, NumPy, Pandas, Scikit-learn, Matplotlib, Git

Databases: MySQL, MongoDB, NoSQL, SQL Server, Elasticsearch, Firebase

Enterprise Tools: Apache Kafka, Postman, Swagger UI, Salesforce

PROFESSIONAL EXPERIENCE

Assistant System Engineer | Tata Consultancy Services, Hyderabad, India

Feb 2021 - Jun 2022

- Implemented and streamlined Active Directory (AD), Windows NT processes, IBM Tivoli, Mainframe, and VMS security procedures, resulting in a 4.7 performance rating and reducing potential security breaches by 60%
- Spearheaded initiatives to enhance **security and protection** against unauthorized access, modification, or destruction.
- Utilized a diverse range of tools and technologies, including Citrix Workspace, **Virtual Machines**, **Microsoft Azure**, Shell Scripting, Active Directory, IBM Tivoli, and ServiceNow, to optimize IT operations and security.
- Played a pivotal role in elevating customer satisfaction from a score of **7** to an impressive **9.5** within a span of just **4** months, underscoring a strong commitment to meeting client needs.

Software Development Intern | WebTek Labs Pvt. Ltd, Hyderabad, India

Sep 2020 - Dec 2020

- Grasped about real-time project development and technology training for a client of staff size **150**.
- Expanded expertise across various technology domains, including **databases**, web servers, and **front-end web development**. Acquired proficiency in HTML, CSS, and **JavaScript**.
- Utilized a range of essential tools and technologies such as J2SDK 1.5 and J2EE for Java development, MyEclipse as an integrated development environment, Tomcat 7.0 as a web server, and MySQL 5.5 for database management.

PROJECT EXPERIENCE

Health Club Membership Management System (React, NodeJS, MySQL, MongoDB, AWS)

Jan 2023 – Apr 2023

- **Led a 4-member team** in the development and deployment of a Health Club Membership Management system using React, NodeJS, and MongoDB on AWS, achieving project success with a **100% completion rate**.
- Demonstrated commitment to agile methodologies with **weekly Scrum meetings**, ensuring effective communication and feedback, and maintaining adherence to XP core values, resulting in a **95% team satisfaction rating**.

Robot Management System (React, NodeJS, MySQL, MongoDB, AWS)

Aug 2022 - Dec 2023

- Enhanced user engagement by 35% via an intuitive user dashboard for robot selection and simulation.
- Achieved a 98% success rate in user authentication and access control, fortifying system security.
- Reduced system downtime by 20% through effective utilization of AWS CloudWatch for real-time monitoring of AWS Robomaker's performance.

Software QA Testing for Mobile Application (Python, Selenium and AI Testing)

Aug 2022 - Dec 2022

- Led a cross-functional team to assess **4** AI food recognition apps and achieved an **82%** pass rate across **50** comprehensive test cases.
- Discovered and documented **27** critical bugs, contributing to app enhancements, Improved application accuracy under diverse conditions for enhanced user experience.

Recognition of Handwritten Digits (Python, SVM, CNN)

Jan 2022 - May 2022

- Utilized **Supported Vector Machine** & to provide accurate results, we used **Convolutional Neural Network (CNN)** achieving global accuracy of **93.043**. Used Machine Learning algorithms to classify and recognize handwritten digits.
- Trained a model to recognize Handwritten Digits on the cheque for banks and Zip codes on envelopes for postal Services used MNIST data set with **70,000** handwritten digits.
- **Published Research Paper** Website link: <http://ijariie.com/FormDetails.aspx?MenuScriptId=201755>

CERTIFICATIONS

- The Complete 2023 Web Development Bootcamp, Udemy
- AWS Certified Cloud Practitioner - 2022, Udemy

Jan 2023 – Jun 2023

Aug 2022 – Oct 2023