

ALI RAYYAN MOHAMMED

Arlington , Texas

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EDUCATION

Master of Computer Science | The University of Texas at Arlington
Current Graduate | Spring 2024

Osmania University | India

Bachelors in information technology | B. Tech IT | 2018-2022 CGPA:
8.2/10

State Board of Intermediate Education | India

Class XII Intermediate | 2016-2018

Percentage: 96.2 %

International Council of Secondary Education ICSE | India

X Standard – ICSE 2016

Percentage: 77 %

COURSEWORK

- Cloud Computing • Artificial Intelligence • Machine Learning • Object Oriented Programming using Java
- Operating Systems • Database Management Systems • Python Programming • Computer Networks
- Software engineering • Data Mining • Cryptography and Network Security • Embedded Systems, Information Storage and Management , Big Data Analytics

PROJECTS

Coordinate Geometry Calculator

Designed the front end using Figma and developed the website using ReactJS. Wrote the code that implemented the logic to make all the Geometric Calculations.

Marketed the website to students that are studying Coordinate Geometry, through various social media platforms.

Have been actively using Google Analytics to increase the userbase. <https://www.cgcalculator.com>

Facial Emotion Recognition using Convolutional Neural Network

The goal of this study was to develop a system that can detect the emotions of people just by looking at them. The three main components of our proposed system were a) Face detection with Haar Cascades b) Normalization c) Emotion recognition with CNN on the FER 2013 database with seven types of expressions.

My role was of a team Leader wherein we used CNN to analyze facial expressions which then went through TensorFlow which classified the emotions and processed the capture image of the people and their expressions through OpenCV and using the FER database for final recognition of the emotions which turned 80% accurate in our proposed system. My main responsibility was to develop, run, debug and test the system using Python, html, JavaScript and css tools.

Embedded Night Vision System for pedestrian Detection

In the Study, we show how a mobile system for pedestrian detection in severe lighting conditions can be build using state of the art algorithms and widely available hardware. The proposed night-vision system for pedestrian detection processes thermal images using a proprietary ODROID XU4 microcomputer under Ubuntu MATE operating system. My main role in this project was a team lead where we applied a cascade object detector for the task of human silhouette detection in context of thermal imagery and contrasted the results with the state-of-the-art deep learning approach. Now a day with advance technologies drivers may get information from sensors such as upcoming traffic signals, diversions, traffic conditions and many more information but these sensors may not provide accurate information about pedestrian or any other objects at night due to darkness or low-quality cameras. To overcome this problem, we are evaluating performance of YOLOV2 CNN (convolution neural networks) object detection model. My main responsibility was to observe the loopholes in the current way of life and develop a system to detect objects from NIGHT VISION using HAAR HOG descriptor with ADABOOST algorithm and providing with results at a higher proximity using OpenCV and HAAR HOG features to detect pedestrian.

Web Applications

Developed a website on mental health care and awareness using ReactJS, Bootstrap, JavaScript and Google Messaging Service for collecting the data.

Developed a management and marketing website based on the Microservice architecture for an event business using ReactJS, JSX, Postman, Spring boot.

Graphic Designing Experience at Amvotech Solutions | India

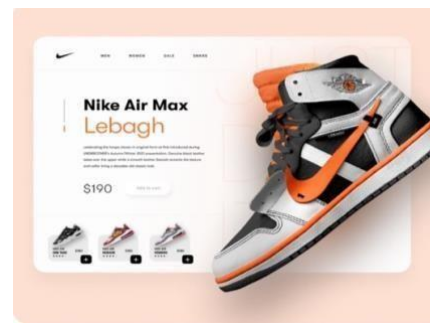
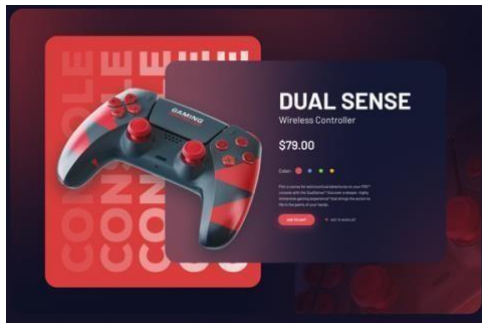
- Assisted in creating visually appealing designs for various marketing materials.
- Collaborated with cross-functional teams to conceptualize and execute design projects.
- Managed multiple projects simultaneously, meeting tight deadlines.

Freelance Graphic Designer | Through LinkedIn

- Worked independently with clients to understand their design needs.
- Developed concepts and designs for a variety of projects, including flyers, posters, and promotional materials.
- Demonstrated strong attention to detail and proofreading skills.

Graphic design | Portfolio

Hey, it's not the best of my works but few of my first learnings and projects that I had done these are special so thought of attaching these.



EXPERIENCE

Associate Software developer

Sept 2022–Feb 2023

Amvotech Solutions

Hyderabad, India

As a Java associate developer, I worked on real time projects using Java, Spring boot, DBMS, Security logging, Devops, AWS building the full stack. My main responsibility was the remediation of the clients Application servers, cleaning up of Log4j and all the application related infrastructure risks in a balanced manner without affecting the business logic. I constantly led the team and held meetings to be in par and stay updated with the client and the team.

I also worked on the SOP for Clients Email application, its description and Features involved developing a fully responsive UI for Email app using material UI library with React. The App had below important features wherein we used Redux for state management, Node.js for API creation and socket.io for real-time email notifications. At my workplace as a Team leader, I trained about 15 software interns by conducting public conferences and various boot camp sessions.

SKILLS

- **Technical Skills** - Java, Python, MERN stack, DBMS, SQL, PostgreSQL, Maven, Oracle Databases, C, C++, HTML, CSS, JavaScript, MongoDB, Graphic Design Principles, Digital Imaging, Typography.
- **Tools and Frameworks** – ReactJS, Postman, Confluence, Figma, JIRA, Spring MVC, Spring boot, Log4j, Jenkins, AWS.
- Experience in Design, development, integration and testing of web applications.
- Good Understanding on Paas, Iaas and SaaS, Software Development Life Cycle (SDLC). Good Knowledge on Security Protocols like TLS, SSL and working experience on Ticketing tool JIRA.
- Good working knowledge on Jenkins CI/CD pipeline and understanding on DSA, TCP/IP and OSI model.

Over 8000 lines of code – Java, JavaScript, ReactJS. **Over 2000 lines of code** – Python, Html, CSS.

CERTIFICATIONS

Android App Development by Internshala

The specialization teaches about the brief basics about the android app development cycle. Beginning with views and the layouts of the app development cycle such as Recycler view, Image view, relative layout and Linear layouts. I learned about the activity lifecycle of an android architecture and to fetch data as APIs onto the app. At the end of the specialization, I was really self-aware and confident about the working architecture of an app and could build apps on my own which really gave a great head start to my independent android app developer journey.

UDEMY | Java Programming Masterclass

This specialization teaches about the Java Object oriented programming language. Beginning with all the essential Java keywords, operators, statements and expressions. I learned java as an Object-oriented language in depth by this specialization as it highlights the OOPS concepts and aspects of the Java API and the protocols which made me firm in the working knowledge and the application aspect of the Java language which is so diverse. By the end of the specialization, I was able to write lines of code using java in every platform of purpose and make use of java as the most diverse and easy-to understand programming language.

UDEMY | ReactJS Masterclass

This specialization teaches all the core basics of ReactJS. Starting with building react components, UI's, props and dynamic data binding. In this specialization I learnt to work with user events and states to create interactive applications. I had a deeper and a close look into how states are managed and how react hooks work and how react eases our work by few of its major important features such as dependency injection, Inversion of control. At the end of this specialization, I was able to write code, debug in ReactJS and also interact with http requests, handle use states and responses.

ACCOMPLISHMENTS

Scholarship Undergraduate | Government of India, Telangana

I had completed my undergrad in B. Tech IT as a scholarship student wherein the state government of India chose me as a scholarship Undergrad scholar based on my performance in academics which waived my complete academic tuition fee and granted me a full waiver.

1st Price at Elocution | Inter – School Elocution Competition

“Presidential Performance: Channeling Obama's Vision for a Better Tomorrow “. In this elocution speech, the main challenging role was the impersonation of not just the personality but the accent, tone and the texture of pitch that Mr. Obama had on his people. I really had the responsibility and opportunity to express my qualities as a public speaker and eventually ended up being the most promising one which gave me a sense of confidence and self believe of being publicly comfortable.

1st Division | Times of India Art Festival

I always believed that “Life is a painting, and you are the artist”. Since childhood I was really fascinated by art, I always used to sketch my family members as a hobby which in turn got built as I progressed at art through various competitions at school. In fact, I was known as one of the brilliant painters and an artist that our school had.

Gold Trophy | Inter – School Cricket Tournament

I represented my school as the cricket captain and won various tournaments for school which complimented not just the sports faculty, but it brought laurels to the whole school.

Computer Science Scholar | Head of the Computer Science department ICSE

Awarded as the Computer science scholar maintaining a percentile of 92% throughout my schooling.

COMMUNITY ENGAGEMENTS

MSS | Microsoft Student Society

I was part of the organizing team at the MSS student council for all the activities and boot camps being held by the Microsoft platform, organized and marketed the ethical hacking boot camp at IIT Hyderabad and was greatly appreciated for the dedicated efforts and contributions.

CSI | Computer Science Society of India

I was part of the CSI student council as the core team member in organizing boot camps and the research groups, represented the CSI community as Vice chair at my university. Took active part in the hackathons conducted by the IEEE and the CSI chapters at the university and was really appreciated in my contributions.

Orators Club and MUN| English Orator and Creative Club

The Orator's Club MJCET provided a common platform for eloquent and talented students and provides them an opportunity to showcase their abilities which in turn leads to enhancing self-confidence and character building. The smooth and effective working of the Orators' club is ensured by a competent Executive body which works under the guidance of the Faculty, Dept. of English. Being an active part in this student body really gave the opportunity to put in my best efforts as a critical thinker, leader and debate enhancing my personality as an orator, public speaker and a content writer.

Hackathon | IEEE chapter, India

Being in the IEEE chapter helped me in various aspects such as debating, public conferences, Critical thinking and reasoning. This chapter helped me introduce to the research and development architecture. I was a part of the organizing team and participated in the inter-university hackathons held by IEEE in collaboration with CSI and GDC Cloud.

HOBBIES

- Sports • Fitness and Weightlifting • Photography • Travelling • Solve Math problems and Quants
- To watch movies and listen to music • To sketch and Paint • Drive around with friends and family