

# Shoaib Mohammed

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## EDUCATION

Illinois Institute of Technology, Chicago

Chicago, IL

Masters in Computer Science

Aug 2022 - Dec2023 (Expected)

Coursework: Enterprise Web Applications, Online Social Network Analysis, Mobile Applications Development.

Gokaraju Rangaraju Institute of Engineering and Technology

Hyderabad, IN

Bachelor of Technology

Aug 2017 - Jul 2021

Coursework: Data Structures and Algorithms, Internet of Things, Database Management, Computer Networks.

## SKILLS

**Programming languages** : Java, Python, Javascript, R, C/C++.

**Frameworks/Libraries** : React, Angular, Gatsby, Spring Boot, Spring Batch, Django, Flask, OpenCV, Tesseract.

**Web Technologies** : HTML5, CSS3, GraphQL, TypeScript

**Databases Management** : SQL/MySQL, Postgres, MongoDB

**Cloud & DevOps** : AWS S3, AWS EC2, Docker, Git, Jenkins

**Others** : Data Structures and Algorithms

## WORK EXPERIENCE

Cognizant Technology Solutions (*Programmer Analyst*)

Aug 2021 - Jul 2022

- Developed ReactJS-based apps that let us use the same codebase to render pages on the client and the server.
- Designed Single Page Application (SPA) using: Angular, Bootstrap, TypeScript, CSS3, HTML5.
- Used Agile Scrum Methodology and Test-driven Development (TDD) for software development to produce high-quality applications.
- Used Hibernate for Database Persistence to perform CRUD operations such as create, read, update, and retrieve.
- Worked extensively in the implementation of payment REST API which reduced the manual work of employees by 30%.
- Implemented a robust user experience by creating 45+ new features and improvements to existing applications.
- Identified and resolved 40+ performance issues and 30+ bugs.
- Contributed to the design and implementation of system architecture, patterns, and strategies.
- Collaborated with 4 cross-functional teams to ensure project success.
- Used GIT for version control and JIRA for bug tracking.

Cognizant Technology Solutions (*Engineering Intern*)

Mar 2021 - Jul 2021

- Ensure 7 different application's, security and ability to interact with multiple APIs and databases.
- Developed automation scripts to test all the components using Tosca automation tool which reduced the manual load by 50%.
- Worked on development of 3 fullstack applications across various platforms using the latest industry-adopted technologies and frameworks
- Gained hands-on experience in Bootstrap, Foundation, Express, and Similar back-end Node.js as well as front-end presentation frameworks web application frameworks.

## PUBLICATIONS

Space Debris Data Unit - IEEEExplore

Jan 2022

- Developed an algorithm in Python using Machine Learning & techniques of Digital Image Processing that can detect space debris in a particular orbit, indicating the quantity and density of debris.
- The design of impulsive CAMs (collision avoidance maneuver) between active spacecraft and space debris has been studied in detail, considering different control strategies and taking into account the effect of uncertainties.

Brain Tumor Detection with Transfer Learning - IEEEExplore

Nov 2021

- It's a research study on brain-tumor detection with different transfer-learning models such as ResNet-50, Inception-V3, & VGG-16.
- This pattern recognition problem for automatic detection of brain-tumor from MRI-images greatly saves the precious time of the radiologist. The accuracy of the VGG network achieves more than 98.16% compared to ResNet-50 and Inception-v3.
- In future it can be increased by collection of more data samples and automating hyper parameter tuning and more data augmentation.

Automated Traffic Ticket Checking System using IoT - IRJET

Sep 2020

- An automated system avoids or eliminates the manual load in the traffic ticket collecting system in India. It also acts as a platform where illegal activities such as fake registration, insurance and pollution certificate validity can be regulated.
- IoT-based traffic exemplary management system using an ArduinoNano microcontroller equipped with an ESP8266 module.