IRFAN AHMED MOHAMMAD
SOFTWARE DEVELOPER

✉ irfanahmed.511.ia@gmail.com
🌐 irfanahmed-portfolio.netlify.app/
📞 9405944107
📍 Denton, TX
in irfan-ahmed-mohd
⚙ irfan5d7

Skills

PROGRAMMING LANGUAGES
Python
Java
JavaScript
Scala
C/C++

DATABASE
Oracle sql
MySql
MongoDB

BACKEND
Spring Boot
Django
REST
JPA
Hibernate

FRONT END FRAMEWORKS
React
Redux
jQuery
Tailwind CSS
Material UI

DEVOPS
AWS
Docker
Kubernetes
Jenkins
Git

TESTING
JUnit
Jest
Jasmine
Mockito
Postman

WEB TECHNOLOGIES
HTML
CSS
AJAX
JSP
DOM
XML
JSON

Summary

Experienced software engineer with a Master's degree in Computer Science from the University of North Texas and over 5 years of industry experience. Skilled in various aspects of software development, including full-stack web development.

Coding Profiles:
LeetCode(1100+ problems solved)   Hacker Rank (5 ⭐)   Code Chef (4 ⭐ 1856)

Employment

Prime Therapeutics   Texas - Remote
Java Software Developer   Jan. 2023 to Current
- Successfully migrated a monolithic legacy application to micro-services using Spring Boot.
- Designed and implemented reactive endpoints using Spring Boot Flux to efficiently handle asynchronous and non-blocking data processing.
- Leveraged reactive programming paradigms to enhance system responsiveness and scalability, allowing concurrent handling of multiple requests
- Experienced in proficiently writing and leveraging Java 8 streams to achieve efficient data processing and manipulation within applications.
- Proficiently developed interactive and user-friendly web applications using ReactJS, TypeScript, Formik, and Material-UI.
- Migrated older class-based components to functional components and implemented lazy loading to reduce the render time by around 27%.
- Successfully migrated a database and cache infrastructure from GemFire to MongoDB for improved scalability and flexibility.
- Enhanced the application's scalability and adaptability by adopting a distributed architecture, incorporating messaging systems like Kafka and Rabbit MQ.
- Deployed and managed applications on Amazon Web Services (AWS) within a Pivotal Cloud Foundry (PCF) environment.
- Designed and implemented RESTful APIs to enable communication between micro-services and external systems.
- Used Swagger UI to provide API documentation and testing for the micro-services.
- Implemented and managed GitHub Actions workflows to automate build, test, and deployment processes

Tech Stack: Spring Boot, Gemfire, Mongo DB, Rabbit MQ, Apache Kafka, REST, Swagger, Git, GitHub Actions, Gradle

Amazon Web Services   Seattle
Software Development Engineer Intern   May 2022 to Aug. 2022
- Worked on creating metrics for customer with account level granularity.
- Created Alpine dashboard (Contributor Insights) for metrics by importing data from AWS Cloud Watch logs.
- These customer level metrics reduced time taken to resolve customer tickets by 80%.
- Used Python boto3 to collect metrics from logs and cloud watch metrics and used Python/Django based web application as backend and ReactJS as frontend
- Implemented Single Page Application (SPA) using React functional components and custom hooks
- Used Python scripts for data processing and pushed metrics to MongoDB
- Used Scala to collect metrics from various applications.
- Created design document for project and attended document reviews.
- Wrote unit test cases using unittest, Jest for Python and ReactJs.

Tech Stack: Python, React.js, Django, Scala, AWS, unittest, Jest, MongoDB,

Apple   Hyderabad, India
Software Engineer   June 2019 to July 2021
Vendor: Tata Consultancy Services
Project 2
- Developed web applications by following Model View Control (MVC) Architecture using server-side application Django
- Used ReactJs to create dashboards in UI templating for faster compilation and developing reusable components.
- Worked on s React Router for routing the redux app, states, props and events to create interactive React JS components.
- Used Python Django to create application that monitors status of EC2 servers that are running Nginx
- Involved in AWS solutions using EC2, S3, EBS, Elastic Load Balancer, Auto scaling groups,
- Wrote scripts in Python and Ansible to automate manual tasks such as configuration and management of Nginx servers, push logs to Splunk and deployment and testing of code changes

Project 1
- Involved in using React JS components, Forms, Events, Keys, Router, Animations and Flux concept.
- Maintained states in the stores and dispatched the actions using Redux.
- Migrated WebObjects Application to Jetty Application by removing/replacing existing WebObjects and their dependencies, application's platform from existing Apache Tomcat Server to Jetty Server and to validate same
- Implemented microservices architecture using Spring Boot for making application smaller and independent.
- Involved in Restful web services to call for GET, POST, PUT, and DELETE methods.
- Wrote JUnit classes and methods for testing and used Mockito to mock instances
- Increased code coverage to 90% - 95 %, and used SonarQube to measure code coverage

Tech Stack: Java, Python, React.js, Spring Boot Django, Hibernate, MySQL, MongoDB, AWS, Tomcat, Jetty, Nginx, SonarQube, JaCoCo, Junit, Jest, Splunk, Jenkins

Juspay Technologies   Banglore, India
Software Development Engineer Intern   Dec. 2019 to May 2019
- Designed and developed a Java-based web application using Spring Boot Framework and Hibernate to manage customer data and transactions.
- React was used to create the user interface, and it was connected with the Java back end.
- Migrated Apache rules to Nginx rules and configurations,
- Managed the MongoDB database and enhanced its performance to guarantee quick data processing and retrieval, used Redis store for cache
- Created custom dashboards in Graphana for various metrics from AWS, Cloudwatch.
- Used AWS services including EC2, S3, Lambda, API Gateway, CloudFront, and CloudFormation for deployment and scaling, worked on Load Balancer (Envoy, Nginx).
- Worked on Load Balancer (Envoy,Nginx), Kubernetes, AWS Cloud,
- Developed custom dashboards in Graphana to display metrics from AWS Cloudwatch.

Tech Stack: Java, Spring Boot, React, Hibernate, MongoDB, HTML/CSS/JavaScript, AWS, Git, Jenkins

Solivar Labs   Visakhapatnam, India
Jr. Software Developer   Jan. 2018 to Aug. 2018
- Created a Django-based web application that offered users with real-time metrics and insights.
- Django Rest Framework was used to provide RESTful APIs to connect with the AI model.
- ReactJS was used to create user interfaces that were then connected with the Django backend.
- Managed the application's deployment and scalability on AWS.
- Performed data sanitization and used libraries like boto3, Beautiful Soup, numpy, scipy, matplotlib, pandas data frame, urllib2.

Tech Stack: Python, Django, React.js, SQL, AWS, REST, HTML, CSS, JavaScript, Git, Jenkins

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Education

University of North Texas
Master's Computer Science 2023
CGPA 3.63 out of 4.00

Aug. 2021 to May 2023

Gayatri Vidya Parishad College of Engineering (A)
Bachelor of Technology Computer Science 2019

Aug. 2015 to Apr. 2019

Acedemic Pojects

Admission Prediction Using Machine Learning
- Developed a web application using Django as the backend framework and ReactJS as the frontend framework for predicting admission chances of students based on GRE/ SAT /IELTS scores.
- Built a machine learning model using Python's scikit-learn library to predict the admission chances based on the input data.

Portfoilo
- Developed a dynamic and configurable portfolio website using ReactJS and Tailwind CSS, allowing easy customization of content and design.
- Implemented a JSON-based configuration file to store and manage website content, such as personal information, project details, skills, and social media links.
- Utilized ReactJS to create reusable components and dynamically render website sections based on the configuration data.
- Integrated Tailwind CSS utility classes and components to rapidly style and customize the website's layout, typography, and color scheme.

News Feed App
- Developed a responsive news feed application using ReactJS and Tailwind CSS, providing users with real-time news updates and a seamless user experience.
- Utilized ReactJS to build modular and reusable components, enabling efficient rendering and maintenance of the news feed application.
- Integrated Tailwind CSS utility classes and styling conventions to create a visually appealing and consistent user interface throughout the application.
- Utilized API services (axios) to fetch news articles and data, ensuring the latest and relevant news updates are displayed to users.

Ev Station Application
- Developed a full-stack CRUD application using Spring Boot, ReactJS, and MYSQL, enabling users to perform Create, Read, Update, and Delete operations to manage data of nearby ev stations
- Designed and implemented the backend RESTful API using Spring Boot, providing endpoints for data manipulation and retrieval.
- Utilized Spring Data JPA to interact with the MYSQL database, including entity mapping, data persistence, and query execution.

Academic Experience

University of North Texas · *Graduate Teaching Assistant*

Aug. 2022 to May 2023

• Course CSCE 5214-Software Development for Artificial Intelligence (Fall 2022)
• Course CSCE 5300- Introduction to Big Data and Data Science (Spring 2023)

Certifications

Amazon Web Services Training and Certification · **AWS Certified Solutions Architect – Associate** Credentials

Sept. 2020

HackerRank · **Python Certification**
Credential ID - AA50B99844E

July 2020

HackerRank **Java Certification**
Credential ID - 43601389B7A0

July 2020