

IRFAN
AHMED
MOHAMMAD
SOFTWARE
DEVELOPER

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in irfan-ahmed-mohd

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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 3 years of industry experience. Skilled in various aspects of software development, including full-stack web development.

Coding Profiles:

LeetCode(1000+ problems solved)

Hacker Rank (5 ⭐)

Code Chef (4 ⭐ 1856)

Employment

Prime Therapeutics

Java Software Developer

Texas - Remote

Jan. 2023 to Current

- Successfully migrated a monolithic application to micro-services using Spring Boot.
- Improved scalability and flexibility of the application by implementing a distributed architecture using messaging systems such as Kafka and Rabbit MQ.
- MongoDB was used to store and manage data for the micro-services, allowing for rapid data processing and retrieval.
- Designed and implemented RESTful APIs to enable communication between micro-services and external systems.
- Swagger UI was used to provide API documentation and testing for the micro-services.

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

Amazon Web Services

Software Development Engineer Intern

Seattle

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,

Tata Consultancy Services LTD

Software Development Engineer

Hyderabad, India

June 2019 to July 2021

Client: Apple

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

Software Development Engineer Intern

Bangalore, India

Jan. 2019 to May 2019

- Worked on Load Balancer (Envoy,Nginx), Kubernetes, AWS Cloud,
- 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).

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

Solivar Labs

Jr. Software Developer

Visakhapatnam, India

June 2018 to Dec. 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

Gayatri Vidya Parishad College of Engineering (A)

Bachelor of Technology Computer Science 2019

Aug. 2021 to May 2023

Aug. 2015 to Apr. 2019

Acedemic Projects

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

Sept. 2020

Credentials

HackerRank · Python Certification

July 2020

Credential ID - AA50B99844E

HackerRankJava Certification

July 2020

Credential ID - 43601389B7A0