IRFAN AHMED MOHAMMAD
SOFTWARE ENGINEER

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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 about 4 years of experience in Software Industry, currently pursuing Master's degree in Computer Science at University of North Texas.
Coding Profiles:
LeetCode(800+ problems solved)   Hacker Rank (5 ⭐)   Code Chef (4 ⭐ 1856)

Employment

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

Banglore, India
June 2018 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).

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

Solivar Labs
Jr. Software Developer

Visakhapatnam, India
May 2017 to Apr. 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   Aug. 2021 to Current
Master's Computer Science 2023
CGPA 3.57 out of 4.00 (Till date)

Activities

University of North Texas · *Graduate Teaching Assistant*   May 2022 to Aug. 2022
• Course CSCE 5214-Software Development for Artificial Intelligence (Fall 2022)
• Course CSCE 5300- Introduction to Big Data and Data Science (Spring 2023)

Awards

Amazon Web Services Training and Certification ·   Sept.
AWS Certified Solutions Architect – Associate   2020
Credentials

HackerRank · **Python Certification**   July 2020
Credential ID - AA50B99844E

*HackerRank***Java Certification**   July 2020
Credential ID - 43601389B7A0