Irfan Ahmed Mohammad

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Summary

Experienced Software Engineer with 4 years of industry expertise including full-stack web development and a Master's in Computer Science from the University of North Texas, demonstrating advanced proficiency in Data Structures and Algorithms. Notably, solved over 1100 problems on LeetCode.

Experience

Prime Therapeutics   Jan 2023 – present
Software Developer   *Texas, Remote*

- Successfully migrated a significant microservice within a large monolithic application, serving over 64000 pharmacies, to a microservices architecture using Spring Boot.
- Decoupled dependencies by implementing a dynamic and configurable YAML-based validation system.
- Implemented reactive endpoints with Spring Boot Flux for efficient asynchronous data processing, leveraging reactive programming. Proficiently used Java 8 streams for efficient data processing.
- Designed reusable React 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.
- Implemented and managed GitHub Actions workflows to automate build, test, and deployment processes
- **Tech Stack**: Java, Spring Boot, ReactJs, Mongo DB, Rabbit MQ, Apache Kafka, REST, Swagger, Git, GitHub Actions

Apple   Jun 2019 – Jul 2021
Software Engineer   *Hyderabad, India*

- **Contract through: Tata Consultancy Services**
- Led the migration of the Apple retail store application infrastructure from WebObjects to Jetty servers.
- Elevated code coverage to 90% - 95% by developing robust JUnit test classes and utilizing Mockito for effective instance mocking. Leveraged SonarQube for comprehensive code quality assessment.
- Developed Django applications for monitoring Nginx-running EC2 servers, actively participating in various AWS solutions. Automated server configuration, log management, and code deployment through Python and Ansible.
- **Tech Stack**: Java, Python, React.js, Spring Boot Django, Hibernate, MySQL, MongoDB, AWS, Tomcat, Jetty, Nginx, SonarQube, JaCoCo, Junit, Jest, Splunk, Jenkins

Solivar Labs   Jan 2018 – Dec 2018
Jr. Software Developer   *Visakhapatnam, India*

- Automated data sanitization and processing of health data using AWS-integrated tools like boto3 and Beautiful Soup, alongside data analysis libraries (numpy, scipy, matplotlib, pandas). Achieved robust data handling, introducing key metrics for improved efficiency and significant reduction in processing time compared to manual methods.
- Engineered a Django-React app for real-time metrics. Oversaw AWS deployment, ensuring optimal scalability.
- **Tech Stack:** Python, Django, React.js, SQL, AWS, REST, HTML, CSS, JavaScript, Git, Jenkins

Internship

Amazon Web Services   May 2022 – Aug 2022
Software Development Engineer Intern   *Texas, Remote*

- Enhanced the existing system to visualize AWS metrics, offering improved insights into the performance of the AWS organization with account-level granularity.
- Employed AWS CloudWatch Metrics to construct custom dashboards for real-time monitoring and alerting, significantly reducing issue resolution time by 80% in customer ticket resolution.
- Authored a comprehensive design document for the project and actively participated in document reviews.
- **Tech Stack**: Java, Scala, ReactJs, Spring Boot, AWS,

Juspay Technologies   Jan 2019 – May 2019
Software Development Engineer Intern   *Banglore, India*

- Engineered a Java web app with Spring Boot, Hibernate, and Spring Security OAuth for customer data and transaction management, seamlessly integrated with ReactJS
- Led MongoDB optimization by implementing indexes and tuning query performance, integrated with Redis for efficient caching.
- Deployed and scaled applications using AWS suite (EC2, S3, Lambda, API Gateway, CloudFront, CloudFormation).
- **Tech Stack**: Java, Spring Boot, React, Hibernate, MongoDB, HTML/CSS/JavaScript, AWS, Git, Jenkins

Education

University of North Texas   May 2023
Master's in Computer Science (GPA: 3.63 / 4.00)   *Denton, Texas*

Gayatri Vidya Parishad College of Engineering (A)   April 2019
Bachelor of Technology in Computer Science (GPA: 7.24 / 10.00)   *visakhapatnam, India*

Projects

Admission Prediction Using Machine Learning | *React.js, Django, Python, MUI*
- Developed a comprehensive web application utilizing Django and ReactJS, integrating a Python scikit-learn machine learning model to predict student admission chances based on GRE, SAT, and IELTS scores.

Portfoilo | *ReactJS, TailwindCSS*
- Engineered a dynamic and configurable ReactJS-powered portfolio website with Tailwind CSS, employing a JSON-based configuration file to facilitate seamless customization of content

Database with Version ControlSystem | *C*
- Designed a Database with Version Control System in C, showcasing advanced skills in data management and versioning, and implemented custom malloc functionality to optimize memory allocation,.

Mini SQL Engine | *C*
- Created a miniature SQL engine in C, featuring dynamic creation and allocation of structures, showcasing advanced programming skills in data manipulation and memory management, emphasizing efficiency and flexibility in handling database structures.

Achievements and Activities

- Secured a ranking of 203 in the CodeVita 2018 National Coding Contest, surpassing approximately 340,000 participants.

- Achieved success in NSBEHack 2022 by winning the Software Challenge and securing Runner-Up in the Product Design Challenge.

- Graduate Teaching Assistant for CSCE 5214 (Software Development for Artificial Intelligence) and CSCE 5300 (Introduction to Big Data and Data Science).

- Guided and mentored a group of approximately 80 students selected for Mission Rnd 2019.

- Founded TechSquad, a technical club, as a Co-Founder during college.

- Dedicated three years to volunteering in Rotaract Club, serving in various positions.

Technical Skills

Languages: Python, Java, JavaScript, Scala, C, C++
Backend: Spring Boot, Django, Junit, Apache Kafka
Frontend: ReactJS, Tailwind CSS, Material UI, HTML, CSS,
DataBase: SQL, MongoDB
DevOps: AWS, Docker, Kubernetes, Ansible, Jenkins, GitHub Actions, Git

Profile Links

- Portfolio

- AWS Solutions Architect

- LeetCode

- HackerRank

- CodeChef

- GitHub