MOHAMMAD YOUNUS SHAIK Full Stack Developer

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⌂ Mohammad Younus 🔗 Portfolio

Summary

Experienced Software Engineer with over **3 years** of expertise in designing and developing **scalable microservices** for high-traffic applications, resulting in **20%** faster performance. Proven track record in **optimizing search functionalities**, and **migrating monolithic systems** to microservices, reducing downtime by **30%**. Skilled in full-stack development, including **Frontend** and **Backend development**.

Skills

Languages/Frameworks: Java, Node.js, C++, Python, Kotlin, PHP, Ktor, Spring, Django, Flask.

Databases: MySQL, DynamoDB, ElasticSearch, PostgreSQL, MongoDB.

Cloud Computing: AWS, Lambda, CloudWatch, EC2, ECS.

Web Technologies: React.js, React Native, Redux.js, HTML/CSS, Bootstrap.js.

Tools: GitLab, SAS, Power BI, Docker, kubernetes, Jenkins, JUnit, Mockito, Redis, Splunk, Datadog, IntelliJ, Linux, REST.

Professional Experience

Software Engineer Intern, Office of Inspector General ↗ Sep 2023 – present │ SpringField, USA
- Engineered a fraud detection system using Node.js, integrated with Google Geo Location API and Street View API, identifying over **50 Medicare fraud cases** and increasing investigative accuracy by **25%**.
- Developed a Geo Location API frontend using Vue.js, displaying routes and travel times on Google Maps, reducing route display **errors by 15%** and ensuring **95% code reliability** with unit tests.
- Created interactive Power BI data visualizations, enabling users to slice and filter provider information by various criteria, reducing **fraud investigation time by 20%** and improving fraud detection efficiency.
- Incorporated advanced fraud detection techniques, analyzing service durations, procedure codes, and claim denials, increasing identification of high-risk providers by **30% through anomaly detection** in billing patterns and geographic locations.
- **Tech Stack:** Node.js, Vue.js, Google Geo Location API, Power BI, Java Spring Boot, MySQL, GCP.

Software Engineer III, Shaadi.com ↗ Jul 2021 – Aug 2023 │ Mumbai, India
- Led the migration of Shaadi.com ↗ 's core search functionality from monolithic architecture to microservices using Java Spring Boot and Kotlin Ktor, **reducing latency by 25%** and improving order tracking efficiency.
- Migrated mailers, matches, and SEO pages, conducting **A/B testing** to validate improvements, enhancing system performance, user engagement, and SEO ranking across the platform.
- Developed key search features like pagination and refinement APIs using Redis Cache, MySQL, and ElasticSearch, which improved **search performance by 25%**, query speed, and scalability for high-traffic user environments.
- Built the Near Me Matches feature utilizing Google Maps geocoder and ElasticSearch geolocation queries, enabling users to connect based on proximity and **boosting engagement by 15%.**
- Created scalable **ShaadiMate** application using React JS with ES6, enabling server-side and client-side rendering from the same codebase. Developed both web and mobile applications using React, React Native, and Redux.
- Designed and deployed Spring Boot microservices applications on AWS EC2, employing Jenkins Pipelines and Docker Compose to streamline deployment, ensuring continuous integration and smooth production workflows.
- Built Gradle dependencies for GitLab CI/CD pipelines, deploying them to AWS ECS, facilitating faster, more reliable deployment processes, and reducing system downtime during updates.
- **Tech Stack:** Java, Kotlin, Spring Boot, Ktor, Redis, MySQL, ElasticSearch, Google Maps API, React JS, React Native, Redux, Junit, AWS EC2, Docker, DataDog, Jenkins, GitLab CI/CD.

Subject Matter Expert, Chegg ↗ Feb 2021 – Mar 2022 │ Remote, India
- Provided expert solutions to **over 200 complex** Computer Science problems, specializing in data structures, algorithms, and competitive coding, helping students enhance their understanding and problem-solving skills.
- **Tech Stack:** Data Structures, Algorithms, Python, Java, C++, Competitive Coding.

Web Development Intern, Ashram Tech ↗ Jan 2021 – Jun 2021 │ Bangalore, India
- Modernized legacy UI technologies using React JS, Node.js, and AWS, improving application performance by **35% and reducing maintenance efforts by 20%** in an Agile environment with regular sprints and daily stand-ups.
- Developed responsive web applications, including blog systems and social platforms, serving **10,000+ users,** with a focus on client authentication and enhanced user experience (UX) design, leveraging React/Redux.js, Bootstrap.js, and Node.js.

- **Tech Stack:** React JS, Redux, Node.js, Figma, GCP, Bootstrap.js, CSS.

Technology Intern, 50Hands ⧉   May 2020 – Oct 2020 │ Remote, Canada
- Conducted trend analysis and tracking for COVID-19 cases across the USA, India, and Canada using public APIs, visualizing real-time data with Java Spring, React.js, and HTML/CSS, resulting in **40%** faster data updates and enhanced clarity for **100,000+ users.**
- Preprocessed large datasets **(over 500,000 records)** with NumPy and Pandas, performing ETL processes and storing data in MySQL, improving data retrieval efficiency by **30%** and reporting accuracy by **25%.**
- Enhanced web performance by implementing Redis caching, reducing redirects by **20%**, and optimizing asynchronous loading, resulting in **15% faster** response times and a smoother user experience.
- Participated in all phases of the SDLC, from requirements gathering to design and development, utilizing core Java and multithreading techniques to build robust, scalable applications capable of handling a **50% increase in data traffic**.
- Tech Stack: Java, Spring, React.js, HTML, CSS, Python, NumPy, Pandas, MySQL, Redis, AWS Lambda

Education

Masters in Computer Science, University Of Illinois   Aug 2023 – present │ Springfield, Illinois

Projects

Android News App ⧉   Jan 2024 – May 2024
- Developed an Android app to aggregate breaking news and headlines from **10+ sources** using the News API, improving news retrieval speed by **30%** through optimized API calls.
- Implemented a search feature allowing users to filter articles by **20+ topics and categories**, resulting in a **25%** increase in user engagement and personalization.
- Integrated the News API, utilizing HTTP REST services for real-time article retrieval, ensuring smooth performance with Java and XML in Android Studio, supporting a user base of **5,000+ active users**.
- Overcame API rate limit challenges by implementing effective caching mechanisms, reducing redundant calls by **40%** and improving app responsiveness by **20%.**
- **Tech Stack:** Java, XML, Android Studio, News API, REST API

Real Estate Website   Jun 2023 – Dec 2023
- Developed a dynamic real estate listings platform using Python Django, increasing user engagement by **30%** and streamlining the home-buying process.
- Enabled buyers to browse property images, view key features, and submit inquiries, reducing the need for live tours by **50%.**
- Provided sellers with a platform that attracted over **1,000 potential buyers** per month, enhancing exposure without requiring physical walkthroughs.
- Created a lead generation platform for realtors, resulting in a **25%** increase in inquiries and potential client connections.
- Designed an admin panel that efficiently manages over **500 realtors, 2,000+ property** listings, and thousands of buyer interactions.
- **Tech Stack:** Python, Django, Bootstrap, Vanilla JavaScript (ES6), JQuery

Court Case Management System   Jan 2020 – May 2020
- Developed a comprehensive web application for Government Of India using PHP and MySQL, featuring three distinct modules for clients, lawyers, and administrators, improving case tracking efficiency by **40%.**
- Enabled over **500 clients** to register complaints, select from a pool of **200+ lawyers**, and monitor case progress in real-time, enhancing client transparency and involvement by **35%.**
- Designed an admin panel allowing administrators to update hearing dates, case statuses, and court assignments, reducing case management workload by **25%** and streamlining workflows across multiple stakeholders.
- Scaled the system to handle a **50%** increase in users and cases, optimizing MySQL queries and database structure, resulting in **20% faster** data retrieval and improved system performance.
- **Tech Stack:** PHP, MySQL, HTML, CSS

Certificates

DataStructures ⧉	**Advanced Java**	**Algorithm Toolbox** ⧉	**Hands-On Kotlin Web**
Coursera	**Programming** ⧉	Coursera	**Development with Ktor**
	LinkedIn Learning		Udemy
Java for Android ⧉		**Learning Amazon Web**	
Coursera	**Learning SQL**	**Services (AWS) for**	**Python: Programming**
	Programming ⧉	**Developers (2018)** ⧉	**Efficiently (2017)** ⧉
	LinkedIn Learning	LinkedIn Learning	LinkedIn Learning