# Mohammad Afzal

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## Summary

**Lead Engineer at Technumen** with over 9 years of extensive experience in Web Application Development. Proficient in full-stack development, with expertise in Java, frontend and backend development in Monolithic and Microservice architectures. Skilled in AWS Services, Stripe payment gateway integration, and Linux System Administration. Strong track record in developing ERP applications and diverse web applications for product and service-based organizations. Proficient in Spring, Hibernate, ReactJS, Angular and Docker.

Actively engaged on stackoverflow.com with a reputation of over 8000 points. Passionate hobbyist guitarist.

## Technical Proficiencies

data not available

## Experience

### Lead Cloud Engineer, Technumen | 2024 - Present

* Oversaw the integration of advanced cloud services, including serverless computing models like AWS Lambda, to optimize operational efficiency and reduce costs.
* Led the development of scalable microservices using Java and Spring Boot, integrating Kafka for efficient message processing and AWS for robust cloud infrastructure.
* Streamlined deployment processes with Docker and Kubernetes, implementing CI/CD pipelines using **Jenkins** to ensure rapid, reliable delivery.
* Developed dynamic web interfaces using **ReactJS**, ensuring seamless integration with backend systems to enhance user experience and system performance.

### Product Development Engineer, Calibo | 2020 - 2023

* Lead the development of scalable web applications in a microservice architecture using Java, Spring Boot, and Hibernate.
* Collaborate with cross-functional teams to understand requirements and deliver high-quality features to production.
* Architect and implement DevOps practices, leveraging Docker, Kubernetes, and Jenkins for continuous integration and deployment.
* Utilize **AWS** services such as **EC2**, **RDS**, and **Sagemaker** to build robust and scalable cloud solutions.
* Work closely with stakeholders to gather feedback, optimize application performance, and ensure smooth product delivery.

### Senior Associate, Nagarro | 2019 - 2020

* Developed enterprise applications using a **hybrid microservices stack**—**Node.js** for lightweight APIs and **Kotlin and Java with Spring Boot** for core business logic.
* Led a small team of engineers in designing, developing, and maintaining microservices, ensuring high scalability and modularity.
* Led the digital transformation of project development by developing web applications using **Kotlin** + **Spring Boot**, **RabbitMQ**, **Angular 8**, and **Postgresql**.
* Actively participated in agile development processes, including sprint planning, daily stand-ups, and retrospective meetings.

### Senior Software Engineer, Enbraun | 2015 - 2019

* **Core contributor and technical lead** on the development of *eResource Scheduler*, a multi-user resource management platform built from the ground up for scalability, availability, and customization on **AWS** **(EC2, RDS, S3, ALB)**.
* Designed and developed **RESTful services** and dynamic frontend modules using **JavaEE**, **AngularJS**, and **Bootstrap**, forming the backbone of the platform’s booking, timesheet, and reporting features.
* Mentored junior developers and facilitated code reviews, fostering a culture of quality and hands-on learning within the team.
* Played a core role in the platform’s **first public release after 3 years of active development**, contributing across all phases—from designing architecture and building features to testing, optimization, and deployment of a **highly available and scalable system**.

## Project Profile

### LAZSA – Product Platform-as-a-Service

Industry-first Product Platform-as-a-Service (pPaaS) to redefine digital innovation and drive competitive advantage through digital business. The platform provides a comprehensive set of tools and technology stack to efficiently manage, define, design, develop, and deploy phases of product development.

Key Contributions:

* Led a team in the development and implementation of core features, ensuring successful delivery to the production environment.
* Collaborated with stakeholders to understand requirements and made architectural decisions to ensure the platform's scalability and performance.
* Implemented Java8, Spring Boot, AWS services, Kafka, ReactJS, Docker, Kubernetes, Jenkins, **Sagemaker**, **MLFlow**, **Kedro**, and **ELK** for seamless development and deployment.

### DiPEC (Digitalized Project Execution)

Web application created to digitalize project development, utilized by engineers of Siemens. The project involved team leadership and development from the initial stages. The application was developed in a microservices architecture, ensuring scalability.

Link : https://www.dipec.siemens.co.in

Key Contributions:

* **Led the end-to-end development** of critical features from inception, working closely with Siemens stakeholders to translate engineering workflows into intuitive application modules.
* Designed and implemented services using **Spring Boot** and **Kafka** to enable scalable, event-driven communication between modules.
* Developed a dynamic and responsive frontend using **Angular 8** and **Material UI**, integrated seamlessly with **PostgreSQL** for reliable data persistence.
* Took ownership of code quality, reviews, and sprint delivery, ensuring adherence to agile processes and successful on-time releases.

### eResource Scheduler

Enbraun's eResource Scheduler is a multi-user feature-rich software for resource management and scheduling. The application enables organizations to efficiently schedule, plan, and manage employees, equipment, and other resources.

Link : https://www.eresourcescheduler.com

Key Contributions:

* Developed scalable **RESTful APIs** and interactive frontend modules using **JavaEE**, **AngularJS**, **Bootstrap**, and **OAuth2**, enabling secure, responsive, and modular scheduling capabilities.
* Implemented advanced features including **user-defined fields**, **dynamic booking charts**, **timesheet modules**, and **customized reporting**, significantly improving planning flexibility and user experience.

### ExamChi – Online Exam Practice Platform

A cloud-based exam preparation tool designed to deliver dynamic quizzes, performance tracking, and practice sessions for students and professionals. Built as a full-stack application to demonstrate scalable architecture, real-time user interaction, and cloud-native deployment.

Link : https://examchi.afzalex.com/

Key Contributions:

* Designed and developed the platform using **Node.js** (Express) for backend services, **ReactJS** for the frontend, and **MongoDB** for schema-flexible data storage.
* Deployed on **AWS** with a focus on performance and availability, leveraging services like EC2 and S3 for hosting and storage.

## Education Detail

**Master of Science** in Data Science from Liverpool John Moores University (Distance)

**Post Graduate Diploma** in Data Science from IIITB Bangalore (Distance)

**Bachelor of Technology** in Computer Science from Uttarakhand Technical University