

# MOHAMMAD HIZBULLAH FUAD

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## FULL STACK JAVA DEVELOPER

Talented Full Stack Developer with 9 years of professional experience leading development teams in designing, testing, maintaining, and delivery of comprehensive software solutions. Proven experience in improving performance and optimizing functionality by analyzing technical requirements and implementing latest technologies. Skilled in using technologies such as Java, Spring, Spring Boot, Hibernate, JavaScript, Typescript, Angular, React, MS SQL, MySQL, and MongoDB.

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Software Development Life Cycle • Backend / Frontend • Microservices • Code Reviews  
Team Leadership • Testing • Debugging • Data Storage / Queries • Analysis

**Languages:** Java, Go

**Web:** HTML5, CSS3, Bootstrap, JavaScript, jQuery, TypeScript

**Web Services:** REST

**Web and Application Servers:** Apache Tomcat, JBoss

**Frameworks:** Spring, Spring Boot, Angular, React, Hibernate, Node.js, Express, Mockito

**Databases:** MS SQL, MySQL, MongoDB, PostgreSQL

**Design Patterns:** Singleton, Factory Method, Strategy, Observer, Builder, Adapter, State, MVC

**SDLC:** Agile / Scrum, Waterfall, TDD

**Tools:** Git, Maven, , IntelliJ IDEA, MySQL Workbench, Visual Studio Code, NPM, UML, Postman, Docker, Jenkins, ActiveMQ, Kafka, Jira, JUnit

**Platforms:** MacOS, Windows

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## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

### KAZ SOFTWARE LTD., Dhaka, Bangladesh • Jun 2013 – Mar 2022

Leading custom software development company.

#### Senior Software Engineer (Oct 2018 – Mar 2022)

Managed software engineering team by assigning development tasks and established deadlines while delivering software solutions according to client requirements.

- Developed and implemented workflow plan.
- Created Microservice-based software for clients.
- Increased performance 50% by migrating legacy GWT-based system to Microservice-based solution with Angular as frontend.
- Expanded knowledge of Go by establishing associated Microservices.
- Performed testing, debugging, and code reviews to maximize code quality in production.
- Built database to optimize data storage and queries.

**Technologies Used:** Java, Spring, Spring Boot, Microservices, Kafka, Hibernate, Angular, Go, TypeScript, RxJS, JavaScript, MSSQL, MySQL, XML, Docker, Git, PrimeNG.

#### Software Engineer (Oct 2016 – Sep 2018)

Analyzed client requirements to build and maintain software and databases.

- Enhanced existing applications based on client feedback.
- Implemented code reviews of other developers to maximize code quality.
- Performed testing and debugging.
- Designed backend and frontend systems.
- Trained and mentored Junior Developers.

**Technologies Used:** Java, Spring, Spring Boot, Microservices, Angular, TypeScript, RxJS, JavaScript, MSSQL, MySQL, XML, Docker, Git, Hibernate, JBoss.

## KAZ SOFTWARE LTD (continued)

### Associate Software Engineer (Jun 2013 – Sep 2016)

Designed, developed, and maintaining software according to client and technical requirements.

- Created database system for applications.
- Improved application performance 20% by optimizing existing stored procedures.
- Implemented Bootstrap and jQuery for frontend design.
- Developed Java-based driver applications to convert XML files to Word file.

**Technologies Used:** MSSQL, MySQL, Java, JAX-RS, jQuery, Bootstrap, XML, XSLT, GWT, Git.

## ACADEMIC PROJECTS

**Library Management System, MIU (2022):** Created desktop-based Java application with functionality for 2 types of users: librarian and admin. Generated monthly report for overdue books. **Technologies Used:** Java, Java Swing, Java File System for Data Storage.

**Property Management Portal, MIU (2022):** Created web-based Java project for homeowners and customers to exchange information. Designed user-friendly interface to meet customer needs. **Technologies Used:** Spring Boot, Spring Data, Spring Security, PostgreSQL, Hibernate, Git, Maven, Docker, React.

**Job Portal Management, MIU (2022):** Built Spring Boot project with REST API to manage job applications. Stored data with MySQL database. **Technologies Used:** Spring Boot, Spring Data, Hibernate, MySQL, Git, Maven.

**Spark Project, MIU (2022):** Built Spark project to expand knowledge of Spark API with goal to practice data analysis on large data sets. **Technologies Used:** Spark API, Scala.

**Hadoop Project, MIU (2022):** Created single node cluster prepared to run and test programs with goal to practice and expand knowledge of MapReduce. Built programs for word count, word count using in-mapper, average computation using in-mapper, pairs and stripe algorithm to compute relative frequencies, and empirical comparison. **Technologies Used:** Hadoop, Java.

## PERSONAL PROJECTS

**Tour Package (2021):** Created application for users to reserve tours on specific days and register using email. **Technologies Used:** React, JavaScript, Node.js, MongoDB, Firebase, Express.

**Doctor's Appointment (2021):** Designed application for users to register and make appointments. **Technologies Used:** React, JavaScript, Node.js, MongoDB, Firebase.

## EDUCATION

### Master of Science in Computer Science

*(In progress via distance education; expected completion December 2024)*

Maharishi International University, Fairfield, Iowa

**Key Courses:** Algorithm, Web Application Programming, Enterprise Architecture, Big Data, Web Application Architecture, Modern Programming Practices, Fundamental Programming Practices

### Master of Science in Computer Science

Jahangirnagar University, Dhaka, Bangladesh

### Bachelor of Science in Physics

Jahangirnagar University, Dhaka, Bangladesh