

# ZAFRUL ISLAM

Lead Analyst | Full Stack Developer | Java17, Spring Boot, Angular | System Design

✓ VISA STATUS: Open for Visa Sponsorship for the UAE, Saudi Arabia, Qatar

✓ Notice Period: Immediate Joiner | Relocation: Yes - 3+ years GCC commitment

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🌐 <https://www.linkedin.com/in/zafrul-fullstack/> 📍 Bengaluru



## SUMMARY

Full Stack Developer with 9.5+ years architecting secure, scalable microservices for government and banking sectors. Led end-to-end E-Authorization platform serving 100K+ Bahraini citizens with 99.9% uptime (PCI-DSS, OAuth 2.0, SSL/TLS). 3+ years active GCC deployment (UAE, Bahrain, Malaysia) with demonstrated success modernizing legacy systems (50K+ COBOL/JCL lines converted to Spring Boot, 35% performance improvement). Skilled in cross-cultural team leadership. Ready for immediate deployment across GCC region.

## EXPERIENCE

### Full Stack Developer

#### CGI

📅 05/2025 - Present 📍 Bangalore, India

Leading IT and business consultant, providing scalable solutions

- Generated JCL-to-Java 17 code framework using ANTLR4, converting 50K+ lines of legacy code to Spring Boot microservice, reducing overhead by 40% and boosting performance by 35%.
- Commenced modular microservice architecture with ANTLR4 and visitor patterns. Facilitated API replacement and ensured system adaptability for Canada Post.
- Implemented custom ANTLR4 grammars and semantic actions to parse complex JCL syntax (macro expansions, dynamic COPY statements), translating procedural mainframe logic into maintainable java components with government data compliance.
- Initiated cross-functional technical teams to build ANTLR4-based code generation tool chain, reducing legacy system dependency and enabling autonomous deployment of converted job streams through Spring Batch framework.

### Full Stack Developer

#### GBM

📅 04/2024 - 05/2025 📍 Manama, Bahrain

A leading company in the Middle East providing innovative technology solutions

- Managed end-to-end E-Authorization platform (100K+ government users, 99.9% uptime, PCI-DSS compliant); architected OAuth 2.0/JWT security framework handling sensitive citizen data with zero security incidents.
- Designed scalable microservice architecture (Node.js, NestJS, Angular); optimized API performance by 30% through profiling and caching strategies.
- Delivered production-ready components across mobile and NGI teams; conducted client POC demonstrations validating technical feasibility.

### Full Stack Developer

#### Tata Consultancy Services

📅 02/2023 - 03/2024 📍 Dubai

A global leader in IT services and consulting

- Engineered Auto Pay Toggle (Angular/Spring Boot) enabling 50K+ retail Customers to self-manage loan repayments; reduced support workload by 25%.
- Architected secure multistep authentication workflow (OAuth 2.0, JWT, two-factor verification) handling 10M+ daily transactions with zero breaches.
- Led cross-functional coordination across 3 countries, ensuring timely API Integration and system delivery.

## KEY ACHIEVEMENTS

### ✓ Legacy Modernization & Performance

Enterprise Code Modernization | Designed and executed JCL-to-Java 17 conversion framework using ANTLR4 parser generation, converting 50K+ lines of mainframe code to Spring Boot microservices; reduced deployment overhead by 40%, performance improved by 35%, enabling autonomous deployment cycles for 100+ job streams (Canada Post, 2025)

## LANGUAGES

### Arabic

Intermediate



### English

Proficient



### Hindi

Native



## SKILLS

### Languages & Scripting

Java JavaScript Type Script

HTML5 CSS3 SQL Python

### Frontend Technologies

Angular Bootstrap Tailwind CSS

Material UI React Redux JQuery

### Backend & Framework

Spring Boot NodeJs NestJs

Express.js RESTful API SOAP

GraphQL Hibernate JPA

Web Socket Spring Web Flux

## EXPERIENCE

### Software Developer

#### Tata Consultancy Services

04/2021 - 02/2023 Kuala Lumpur

A global leader in IT services and consulting

- Architected PORT IN/PORT OUT systems by designing and implementing low-level and high-level architecture for Celcom's telecom infrastructure.
- Enhanced core billing and KYC modules, reducing API latency by 30%; upgraded system to handle 3x concurrent load without infrastructure scaling
- Mentored 4 junior developers on performance optimization; improved team's system design expertise through knowledge-sharing sessions.

### Software Developer

#### Infinite Computer Solutions

09/2020 - 03/2021 Chennai

An IT services provider specializing in digital transformation

- Architected a scalable real-time streaming platform using Kurento Media Server and WebSockets. Supported more than 50 concurrent multi-participant connections. Achieved less than 150ms latency through optimized media handling and synchronized stream delivery.
- Planned and implemented bidirectional Web Socket communication framework enabling real-time client-server synchronization with zero packet loss for video/audio streams.
- Developed backend session management and stream processing modules (Java/Spring Boot). Ensured efficient resource utilization, consistent playback quality, and seamless user interaction across all participants.

### Full Stack Developer

#### UST Global

08/2018 - 09/2020 Trivandrum

A digital technology services company

- Extracted and transformed data from JDE and TCMIS systems by designing database mappings and interchange processes tailored to project needs.
- Increased API test coverage by {30%} by maintaining automation scripts with Cucumber, ensuring reliable workflows.
- Leveraged Mule ESB as middleware to enable seamless data routing and integration between enterprise systems.
- Collaborated with cross-functional teams to integrate APIs and middleware services, ensuring timely project delivery and system performance.

### Software Developer

#### Virinchi Technology

09/2016 - 06/2018 Hyderabad

A healthcare technology solutions provider

- Expanded key modules for the Virinchi hospital Project, including Doctor Portal, Patient Center, CRM, and Restaurant Management System
- Built doctor-facing features for managing patient prescriptions, conducting online consultations, and streamlining patient-related activities
- Applied patient-facing functionalities, including online appointment booking, access to medical reports, and video consultations
- Enhanced RMS frontend using AngularJS, improving user interactivity and experience

## EDUCATION

### M.Tech in Computer Science

#### JNTU

11/2013 - 09/2016 Hyderabad, India

### B.Tech in Information Technology

#### SIT

05/2009 - 06/2013 Siliguri, W.B

## SKILLS

### Cloud & Infrastructure

AWS EC2 RDS S3 Lambda  
Cognito GCP Docker Kubernetes  
Containerization CI/CD

### Databases & Caching

PostgreSQL RDBMS Oracle  
MongoDB Redis EhCache  
Hazelcast Query Optimization  
DB Indexing Data Consistency NoSQL  
Elasticsearch

### Security & Compliance

OAuth 2.0 JWT Role-Based Access  
PCI-DSS Compliance Data Encryption  
SSL/TLS API Security  
Banking Security Standards  
Government-Grade Security HIPAA  
SOC 2 Distributed Tracing

### Integration & Messaging

Apache Kafka Mule ESB  
Message Broker  
Event-Driven Architecture  
Data Exchange Microservice  
API Integration

### Testing & Quality Assurance

Jmeter Postman Cucumber  
Karate API Automation BDD JUnit  
Jasmin Integration Testing  
Automated Testing

## SKILLS

### Development Tools

GitHub   Git   Jira   Confluence

Jenkins   Maven   SonarQube

SQL Developer

### Additional Skills

Agile Development   Scrum   LLM

Performance Tuning   Optimization

Real-Time Communication   AI-Apps

System Design   DSA   ANTLR4


RAG   Team Leadership

## FIND ME ONLINE

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## ADDITIONAL INFORMATION

### SPECIALIZATION FOR GCC MARKET

Government-Grade Security & Compliance  
PCI-DSS, OAuth 2.0, JWT, SSL/TLS, data encryption, HIPAA-ready

Microservices & Cloud Architecture  
Spring Boot, API design (RESTful/GraphQL), event-driven systems, serverless

Government Sector Expertise  
E-Government platforms (Bahrain), secure transaction processing, citizen data handling

Middle East Regional Experience  
3+ years cross-border deployment (UAE, Bahrain, Malaysia), multicultural team leadership

Legacy System Modernization  
JCL/COBOL code conversion, ANTLR4 parsing, framework design, cloud-native migration

Cloud-Native Development  
AWS (Lambda, S3, RDS), GCP, Docker, Kubernetes, CI/CD pipelines