EMIL MOHAMMED CK

Senior Java Developer | Microservices & Cloud-Native Systems

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CAREER SUMMARY

- **7+ years** of hands-on experience engineering Java Enterprise Applications and cloud-native microservices for high-volume, regulated environments (financial identity verification, air-cargo logistics).
- Proven track record designing and building **Microservices** with **Spring Boot, Spring Cloud, JPA, and Hibernate**, from architecture design through production deployment.
- Hands-on experience with **event-driven architecture** using Apache Kafka and RabbitMQ, and containerized deployment with Docker and Kubernetes.
- Working knowledge of **CI/CD pipelines and DevOps** practices (Jenkins, SonarQube, Git), consistently maintaining 90%+ automated test coverage.
- Familiar with front-end development using **React, CSS3, and HTML5** for full-stack contributions.
- 7+ years operating in **Agile/Scrum** environments, actively participating in grooming, planning, and retrospective ceremonies.

TECHNICAL SKILLS

Programming Languages: Java 17, SQL, JavaScript, HTML5, CSS3

Frameworks & Technologies: Spring Boot, Microservices, Spring Cloud, JPA, Hibernate, JSP, Servlet, RESTful APIs, RestTemplate, WebClient, Maven, Feign, React, Mockito

Tools & Platforms: Docker, Kubernetes, NGINX, Jenkins, Apache Kafka, Git, JIRA, IntelliJ, Postman

Database Technologies: PostgreSQL, Oracle, MSSQL, MySQL, Liquibase, Flyway

PROFESSIONAL EXPERIENCE

Senior Java Developer | Emirates Face Recognition, Abu Dhabi, UAE *Feb 2025 – Present*

- Designed and developed scalable KYC microservices using **Java 17, Spring Boot, Spring MVC, and Spring Data JPA**, handling customer onboarding and identity-verification workflows for **10K+ users/transactions per day**.
- Built the end-to-end KYC lifecycle — OCR validation, identity matching, risk categorization, and approval workflows.
- Built RESTful APIs with structured request validation, standardized error handling, and consistent response formats for seamless integration with upstream and downstream systems, managing database schema changes with Flyway.
- Integrated external KYC providers (OCR, identity verification) via Apache HttpClient, RestTemplate, and WebClient, implementing retry mechanisms, timeouts, and circuit breakers for resilient production operation.
- Published KYC events and exception messages to RabbitMQ, enabling real-time downstream risk analysis, monitoring, and alerting.
- Co-led high-level system architecture design for the KYC platform, partnering with product, security, and infrastructure teams to finalize end-to-end flows meeting client and regulatory requirements.
- Defined traffic routing and load-balancing strategy, including usage of NGINX, ALB, and NLB.

Senior Software Developer | IBS Software, Kochi, India *Jun 2021 – May 2024*

- Delivered production code against requirements and design specifications while enforcing coding standards via SonarQube, keeping technical debt and critical code smells consistently below team thresholds.
- Followed Test-Driven Development (TDD) with JUnit, sustaining **95%+ unit test coverage** and **80%+ contract test coverage** across delivered features.
- Drove team visibility by reporting progress in reviews, walkthroughs, and metrics collection, contributing to consistently on-time sprint delivery.
- Partnered with cross-functional teams in an Agile/Scrum environment to design, build, test, and ship software across bi-weekly sprints.
- Technologies: Java 11, Spring Boot Microservices, Spring Data, JPA, REST API, Maven, JUnit, Mockito, Postman, Git, SQL, Liquibase, Kafka, Kubernetes, Jenkins, React.

Software Developer | UST, Trivandrum, India *Feb 2019 – Jun 2021*

- Built Java-based automation tools that streamlined daily operational tasks, **reducing manual workload by 60%** and freeing the team to focus on higher-value engineering work.
- Maintained and optimized Java-based applications through proactive monitoring and regular enhancements, improving system performance and reducing downtime.
- Provided delivery support for IBM WebSphere Commerce services, ensuring smooth functioning and integration of core e-commerce systems.
- Technologies: Java 8, Spring Boot, Servlet, JSP, SQL, IBM WebSphere Commerce support tools.

KEY PROJECTS

iCargo | Air Cargo Software (IBS Software)

- Developed and maintained the **Quality Audit module** of the iCargo Microservices application (Spring Boot) for airlines and ground-handling agents, validating Air Waybill (AWB) billing records including taxation and other charge details.
- Implemented discrepancy-checking logic to automatically flag or clear AWB billing records, marking entries as **billed** once validated as discrepancy-free.
- Leveraged Apache Kafka for real-time data streaming and asynchronous communication between distributed systems, improving overall system responsiveness.
- Collaborated closely with Business Analysts and cross-functional teams to gather requirements and deliver solutions aligned with business objectives.

EDUCATION

- **Bachelor of Technology, Computer Science and Engineering** — University of Calicut, Kerala, India (2013 – 2017)