Samih Jomaa [Senior Backend Engineer (Real-Time Payments Infrastructure)]

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WORK EXPERIENCE

eMcREY **Riyadh, Saudi Arabia**
Senior Engineer *September 2024 – PRESENT*

- Developed backend services for KNET, Kuwait's largest payment gateway, using Java Spring to support high-volume transaction processing and merchant settlements.
- Optimized server performance by monitoring and tuning Linux systems (RAM, CPU, network) and JVM parameters for efficient resource usage and assisted in integrating our applications with numerous local and GCC banks.
- Implemented GCC interchange and settlement fee logic for cross-border acquiring transactions, validating field mappings against reference specifications to ensure accurate clearing and reconciliation across regional bank integrations.
- Built a Java-based settlement file generator for the Central Bank of Oman (CBO) / OmanNet SDMS, producing daily encrypted posting files and mapping transaction fields to the bank's required format and specifications.
- Collaborated on migrating transaction database from MS SQL to Oracle SQL, ensuring seamless application integration and data integrity.
- Reconciled financial data for merchant settlements and invoice processing, applying complex fee structures and business logic for accuracy.
- Automated end-of-month invoice generation for 30+ invoice types using Linux crontab and Bash scripts, processing large datasets in multiple formats (PDF, CSV, XML) using java spring processes.
- Designed transaction fee reports using JasperSoft Studio to support financial reporting for stakeholders.
- Enhanced application GUI using JavaScript and ExtJS, improving user experience for transaction management.

STC Bank (Under Seedz Technology Group) **Riyadh, Saudi Arabia**
Technical Consultant – Full Time *September 2023 – July 2024*

- Designed and implemented a real-time micro-loans system using Java 8+, Spring Boot, and Kafka within a microservices architecture.
- Leveraged OOP principles and a suite of Spring frameworks (Core, MVC, Security, Data JPA/Hibernate, Transaction Management) to build secure REST APIs with JWT authentication.
- Integrated external systems by managing PostgreSQL with Flyway (optimizing queries via Hibernate/JPA), enabling real-time data streaming and asynchronous communication with Kafka, and incorporating T24 APIs with Swagger documentation.
- Developed comprehensive unit and integration tests using JUnit, Mockito, Spring Boot Test, and Testcontainers, while optimizing performance and implementing structured logging with SLF4J/Log4j.
- Streamlined build and deployment processes through automation with GitLab CI/CD, Docker, Gradle/Maven, and managed deployments on AWS and OpenShift.
- Collaborated effectively with frontend (ExtJS 3.x), infrastructure, QA, Mobile, .NET, and Business teams.

VNEXT Technologies **United Arab Emirates**
Integration Engineer Intern (Remote) *May 2023 – August 2023*

- Enabled seamless integrations with WSO2 IAM to enhance data flow.
- Configured Apache Tomcat proficiently, utilizing Jira and Maven for streamlined development processes.
- Rigorously validated API endpoints with Postman to ensure reliability.
- Managed multi-environment engagement on CentOS, optimizing integration for diverse systems.

Upper Octave LLC **Seattle, WA**

Blockchain Developer (Remote) *August 2022 – March 2023*

- Automated testing with Truffle or Hard Hat frameworks.
- Contributed to front-end development for dApps using React, HTML, CSS, and JavaScript.
- Integrated smart contracts with oracle services for external data retrieval.
- Followed security best practices and applied secure coding patterns.
- Deployed smart contracts on various Ethereum networks.
- Conducted code reviews and provided feedback to peers and external developers.

EDUCATION

American University of Beirut **Beirut, Lebanon**

BSc in Computer Science *Graduation Date: July 2023*

- Member of Computer Science Students Society Club

PROJECT EXPERIENCE

NeuralFin (Awarded Murex Best Collaborative Development Project for 2023)

- Created NeuralFin, a stock market risk assessment tool with Next.js, Tailwind.css, three.js, d3.js, Motion-Canvas, Django, and PostgreSQL.
- Offers comprehensive market analysis, risk assessment, and news in a user-friendly interface.
- Empowers individuals and institutions to make informed investment decisions with reliable and up-to-date information.

Barbershops

- Collaborated on AUB Web Development project for barbers and salons, enabling seamless bookings and management.
- Used ASP.NET MVC (C#), MySQL, and Bootstrap for backend and frontend development.
- Leveraged ASP.NET Core, Entity Framework Core, Angular, and Google Maps API for enhanced features.

SKILLS

- **Backend & Infrastructure**: Java 8+/17 • Spring Boot (Core, MVC, Security, Data JPA/Hibernate) • Apache Kafka • REST APIs • Microservices • Distributed systems & system design • Oracle SQL • PostgreSQL • MS SQL • Docker • GitLab CI/CD • AWS • OpenShift • Microsoft Azure • Gradle/Maven • Linux & JVM tuning • Production monitoring & structured logging (SLF4J/Log4j) • JUnit, Mockito, Testcontainers
- **Programming**: C# • Java • Python • Solidity (Hard Hat & Truffle) • C/C++ • Unity3D • Unix/Linux • GIT • VB.NET
- DB & **Analytics**: ASP.NET Entity Framework • IPython • R • SQL (NoSQL, PostgreSQL, SQLite & MySQL)
- **Web**: HTML5 • CSS3 • JavaScript • Microsoft Azure • Google Firebase • Libraries: Boostrap - JQuery – ReactJS • ASP.NET Framework • NodeJs • NextJs Framework • Adobe XD
- **Mobile**: Android Development (Java & Kotlin) • Swift (iOS dev)
- **Languages**: Native Arabic • Fluent in English • Intermediate in German & French