HAMZA AZAM

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Tweeq/Tabby - Senior Backend Engineer - Golang (Dec 2023 -Current)

- Reviewed code, wrote unit and integration test using Testify to make code base testable.
- Developed group bill-splitting feature for Request to Pay.
- Built and scaled the Remit Now, Pay Later product in UAE with Lulu, reaching $1M+ monthly transaction revenue.
- Configured and monitored ledger metrics in Datadog with Slack alerts to track balance issues in prefunded accounts.
- Designed a configurable fraud monitoring system using CEL, Go Redis, and a custom DSL-based rule engine.

Technology and framework:

- Golang, gRPC, Temporal, Google Pub/Sub, Datadog, OpenAPI Spec, PostgreSQL, CockroachDB, Redis, Retool

Dglobal - Backend - Kotlin (August 2022 - Oct 2023)

- Founding engineer of Sequoia backed Digital bank which aims to make it simple to borrow, transact and save money securely.
- Design, developed the product development of core banking, lending and payments microservice using Kotlin, Spring boot and cloud native technologies.
- Using liquibase for database migration along with jdbi for database interaction
- Implemented payment executor service using reactive Webclient for asynchronous architecture.
- Implemented guaranteed message delivery using Spring Cloud Stream and rabbitmq binder for egress payment messages.
- Reviewed code, wrote unit and integration test using TestContainers to make code base testable.
- Using gRPC for interservice communication among different services.
- Deployed services through helm charts on Kubernetes cluster
- Writing Dockerfile, Docker-compose files for microservices

Technology and framework:

- Kotlin, Spring boot, Github actions, Sonar,gRPC, Liquibase, Jdbi, Testcontainers, Docker, DockerCompose, Kubernetes, Helm charts, Spring cloud stream, Rabbitmq, Apache pulsar, Netty, ArgoCD, AWS EKS, AWK ECR

PaysysLabs - Java - Software Engineer (July 2021 - August 2022)

- Worked on the implementation of retail network across Pakistan in collaboration with Opay for POS acquiring
- Implemented integration with different payment schemes i.e. UPI, VISA, Mastercard
- Implementation of Merchant Settlement files to be sent to Banks for disbursement of payments
- Implementation of jPos to connect POS with Netty server over TCP/IP.
- Implementation of Merchant Management System for merchant on boarding.
- Stress testing of payment gateway and payment switch to analyze and improve transaction per second.

Technology and framework:

- Java, Spring boot, RabbiqMQ, Redis, Nginx, Thymeleaf, jPos, Swagger, Jenkins, Docker, Sonarqube, Hibernate, JPA, ISO8583

Avanza Solutions - C++ Software Engineer (Oct 2020 - July 2021)

- Worked on Rendezvous, a payment switch/middleware that offers compatibility in communication, transaction processing, and message translation.
- Worked on payment messaging format ISO8583 and other proprietary message through TCP/IP
- Understand, identify and implement fixes to production issues.
- Using C++, STL and multi-threaded programming to create transaction on Rendezvous.

Technology and framework:

- C++, STL, MSMQ, Webservices, .Net

SKILLS

- Languages: Kotlin, Java, C++, Go
- Frameworks: Spring Boot
- Databases: MySQL, PostgreSQL, Cockroachdb
- Web Services: Restful API, Socket.io , Docker, Selenium, RabbiqMQ, Redis, Microservices, Swagger UI, gRPC, Nginx, Github actions, Jenkins, Kubernetes, Helm charts, Argocd, EKS, ECR, JPA, Hibernate
- Build Tools: Maven, Gradle, Bazel

EDUCATION

- Bachelors in Computer Science (BSCS) from DHA Suffa University