Abdul Wasay Usmani

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Skills:

- Languages: Go, C++, Python
- Backend: RPC, Rest APIs, Sockets, Concurrent Applications
- Databases: MySQL, SQL Server, Redis
- Infrastructure: Docker, Kubernetes, Git actions, Helm, Microservices architecture, Nginx
- Observability: OpenTelemtry, Prometheus, Grafana, Sentry
- Cloud Providers: Amazon Web Services, Cloudflare, Google Cloud Platform

Work Experience:

Senior Software Engineer - Safepay (YC 22 and Stripe Backed)

Nov 2022 - Present

GitHub: github.com/wasay-usmani

LinkedIn: linkedin.com/in/wasayusmani/

- Leading the Raast integration to enable instant peer-to-merchant payments, a revolutionary product for
 Pakistan built on the ISO 20022 standard with an asynchronous payment flow. Implemented this solution
 both for Safepay's own product and as a SaaS offering for other financial institutions. This integration will
 empower Safepay to develop its own mobile application and offer zero-cost payments, as Raast transactions
 are free of charge. (Go, MySQL, Redis, RPC, Rest API, Async payment flow)
- Developed a PCI DSS-compliant vault service with features such as tokenization, caching and encryption (in-transit and at rest), enabling Safepay to introduce offerings like Shopify on-site and API-based raw card handling. This led to seamless integrations with financial institutions and a 400% increase in monthly revenue. (Go, MySQL, Redis, AWS KMS, RPC, Rest API)
- Built a user registration and authentication server using JWT authentication, allowing users to create accounts and securely save up to five payment cards. This streamlined repeat transactions and has been adopted by 20% of Safepay users. (Go, Redis, JWT, RPC)
- Designed and implemented a disputes management system to track disputed transactions, allowing merchants to upload evidence. This system enabled effective arbitration and tracking of \$1 million worth of transactions. (Go, MySQL, RPC, S3)
- Implemented a Role-Based Access Control (RBAC) system to manage admin panel members and assign roles based on responsibilities. This improved system security and accessibility through granular control mechanisms. (Go, MySQL, Redis, RPC)
- Spearheaded the migration of Safepay's infrastructure from Google Cloud Platform to Amazon Web Services, leveraging AWS-managed services for scalability. Optimized costs with free AWS cloud credits, saving hundreds of thousands of dollars. (GKE, EKS, Terraform)
- Trained backend interns to familiarize them with Safepay's infrastructure, development practices, and tools, ensuring they quickly became productive contributors to the team.

C++ Software Engineer - <u>Logiciel Services</u>

Jan 2022 - Nov 2022

- Developed a customizable rule configuration system for brokers using a bespoke language, enabling
 real-time rule parsing and calibration through Boost Fusion and QI parser. This system generated
 approximately \$100,000 in broker fees within the first month of deployment. (C++, CMake, Boost Fusion,
 ASIO and QI parser)
- Developed a real-time trading simulator based on the FIX protocol. It simulated transactions based on the current stock price, maintained an order book, and simulated a matching engine. This simulator served as a training tool for retail traders and enabled internal testing of new products using live market data. (C++, Boost Asio, Boost multi-containers, QuickFIX libraries)
- Worked on a low-latency market data server, which distributed live market data to all our internal services and other clients. (C++, CMake, Redis, ZeroMq)

Education

Habib University

Aug 2017 - June 2021

Bachelor of Science in Computer Science

(CGPA 3.50)