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Qasim Hafeez

Senior Software Engineer |
Fintech | Distributed Systems | AI
Engineering

Portfolio:
www.qasimhafeez.com
www.github.com/qasimhafeez

Professional Summary

Results-driven and collaborative **Senior Software Engineer** with **7 years** of experience specializing in **Extreme Programming** environments. Proven expertise in **Test-Driven Development (TDD)**, **Pair Programming**, and **Continuous Refactoring**. Skilled in designing and implementing **Distributed Systems Architectures** including **Microservices**, **Event-Driven**, and **RESTful Services** using **Golang, Java, Python, Node.js**, and **TypeScript**. Adept at building and optimizing APIs, integrating messaging systems like **Kafka**, **RabbitMQ** and working with **relational and non-relational databases**. Demonstrated leadership in delivering high-quality solutions, conducting **AI PoC integrations**, and thriving in **fast-paced, feedback-driven environments**. Committed to driving stakeholder value through **collaborative problem-solving** and **innovative technical solutions**.

Work Experience

Senior Software Engineer **Emirates NBD, Dubai** **Sep 2024 – Present**

- Developed and optimized APIs using **Node.js** and **TypeScript** for various crypto-related services within a **microservices architecture**.
- Implemented a **Reconciliation system** for cash and transaction flows, ensuring accurate financial data processing with scheduled automation.
- Built and maintained services for handling **Crypto Market Data**, including real-time price feeds and account transactions.
- Integrated **Kafka** for notifications and messaging between microservices, improving event-driven communication and reliability.
- Conducted a **proof-of-concept (PoC)** for **AI integration** to enhance financial systems, exploring predictive analytics and automation using **Hugging Face** and **LangChain**
- Collaborated with the team on additional microservices supporting **crypto buy and sell functionalities**.
- Configured webhooks to facilitate communication with external services, improving data synchronization across platforms.

Backend Software Engineer **Deriv, Dubai** **Oct 2022 – Aug 2024**

- Collaborated with quant and trading teams to develop Sharkfin and Accumulators Trading Options using Golang, enhancing service communication and scalability with gRPC.
- Enhanced websocket layer efficiency and improved RPC performance by strategically reducing dependencies.
- Transitioned from traditional RPC to **gRPC**, significantly boosting system efficiency and effectiveness across distributed computing networks.
- Augmented trading performance and user experience through gRPC integration, enhancing event tracking, logging, and comprehensive monitoring.
- Managed PostgreSQL databases with **Golang**, adding and modifying tables to support new features.
- Implemented essential features in DTrader, leveraging gRPC for inter-service communication to enhance functionality.
- Upgraded backoffice with core **Risk Management** features, collaborating with quants to meet requirements and boost efficiency.
- Developed new features across multiple services with Golang, enhancing system scalability.
- Optimized pricing service caching, significantly improving performance and reducing response times to enhance user experience.

Full Stack Software Engineer   Zain Telecommunication, Dubai   Feb 2020 – Oct 2022
- Developed a recharge-based application portal by using major distributor APIs.
- Implemented Local and International recharge suppliers and created RESTFUL APIs on micro-services architecture.
- Built a payment gateway for sending recharges from cards to different users.
- Developed and maintained their existing portal, adding various features to enhance its speed and efficiency by 30% through the implementation of **Redis, load balancing** and in memory caching.
- Developed workflow for deployment on CI/CD tools like: GitHub Actions, docker and kubernetes
- Code optimization and load balancing using docker, kubernetes, NGINX.
- Contributed to robust and scalable software architecture
- Document all related work per company's methodology

Software Engineer   Blue Raven, Pakistan   May 2018 - Feb 2020
- Built a complete e-commerce store b2b including all the major features like: product recommendation, payment gateways, products, orders and delivery modules.
- Built restful APIs for garage management systems. I worked as a backend engineer there and built modules like: garage booking, invoices and generate reports module.
- Built few projects in web scraping, data analytics (using numpy, pandas and matplotlib), custom plugin and theme development for wordpress and custom dynamic web applications living on the internet.

Skills

- Programming Languages – JavaScript, Typescript, Python, Java, Golang, Php, Perl, SQL
- Database - MySQL, MongoDB, PostgreSQL, DynamoDB
- Distributed System - Hadoop, MadReduce, Spark, Spark Streaming, Cassandra, HBase, HDFS
- Messaging - Kafka, RabbitMQ, NATS Streaming
- Frameworks & Libraries – Node.js, Django, Flask, React, Redux, Express, Selenium, Jest, Mocha
- Cloud - Heroku, AWS, GCP, Docker Droplets
- Tools – Postman, Git, Git bash, Redux Dev toolkit
- CI / CD - GitHub Actions, Docker, Kubernetes, Skaffold, Circle CI
- Project Methodology - Agile, Kanban, Scrum, RAD
- Others – RPC, GRPC, Websockets, Redis, Redis Streaming, NGINX, ingress-nginx, RESTful APIs, Graph QL, JSON, XML, YAML

Education

BS Software Engineering   University of Gujrat, Pakistan

- Main coursework: Object Oriented Programming, Data Structures and Algorithms, Discrete Structures, Software and Compiler Construction, Machine Learning, Database Systems, Operating Systems, Cloud Computing.

Certifications

- Digital Currency - University of Nicosia
- Distributed Computing - O'reilly
- Advanced Redis - LinkedIn Learning
- Design Patterns - O'reilly
- Go Concurrency – LinkedIn Learning
- Advanced Go - O'reilly
- Docker For Developers - LinkedIn Learning
- Scrum Methodology – LinkedIn Learning
- Agile for Developers – LinkedIn Learning
- gRPC [Golang] Master Class: Build Modern API and Microservices - O'reilly