

Muhammed Jishin Jamal T C P

Software Engineer

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SUMMARY

Self-taught Software Engineer with over 2 years of experience in backend development, specializing in designing and implementing microservices architectures. Driven by a passion for writing code, which naturally led me to a Software Engineer role. Proven expertise in building secure, reliable, and scalable systems, with hands-on experience in financial technology, particularly Real-Time Payments. Adept at solving complex technical challenges and passionate about creating high-performance solutions. Open to opportunities across industries that leverage my skills in efficient system development

SKILLS

Go (Golang), Microservices Architecture, gRPC & REST API Development, CI/CD , Docker, Linux, AWS, JetStream, NATS, IBM MQ, Cryptography, MongoDB, Distributed Systems, Jira, Karate Framework, Prompt Engineering, Grafana, ClickHouse

EXPERIENCE

Golang Developer

Chennai, India

NetXD

03/2023 - Present

Provides a transaction banking platform focused on delivering exceptional value to Banks and Fintechs.

- Managed a 21-member team to enhance microservices architecture and implement automated security testing, effectively identifying vulnerabilities like IDOR (Insecure Direct Object References).
- Implemented gRPC and IBM MQ Connection Caching, which improved performance by 50% to 70%
- Designed and implemented a transaction simulator for TCH and FedNow, ensuring 100% accuracy in transaction replication for development and testing purposes.
- Integrated Grafana into microservices for real-time monitoring and visualization
- Worked with the ACH connector for file-based transaction communication between the ledger and the network, utilizing NACHA file format for ACH data transfer.
- Integrated Ultimus Fund Solutions to manage Money Market Funds (MMF) through a high-performance microservice using gRPC and Protobuf serialization.
- Created proof-of-concepts (POC's) for MongoDB field-level encryption, automated RPC→gRPC proto file generation, integration with Ledger Nano X, integration with Yodlee Android application, and more.
- Upgraded Stan to JetStream across microservices, boosting system performance by 30% and improving stability by 25%.

Software Engineer Intern

Calicut, Kerala

Freelancer

10/2022 - 03/2023

- Engineered a secure, high-performance, scalable e-commerce backend API. (k8s, SNS, ECS, EC2, S3, PostgreSQL, Golang)
- Designed secure file data transfer using steganography (gRPC)
- Developed a secure employee management system that manages employee data and saves it in AWS S3 as small, separate chunks. (Python Flask)

Vulnerability Assessment & Penetration Testing

Delhi, India

CyberXchange

10/2021 - 02/2022

- Role is to perform security testing of web applications, research on latest cyber security attacks

PROJECTS

XD-Payments

- XD-Payments supports real-time payments (FedNow, TCH) in compliance with ISO 20022 standards, making it a pluggable connector to the ledger with ready connections to FedNow and TCH for seamless integration, all wrapped with a digital signature for enhanced security and end-to-end auditing.
- leverages the power of the Go ecosystem with top security measures, supporting both private networks and TPSP, and uses IBM MQ for communication with The Clearing House.
- Streamlined TPSP FI-Onboarding, making the process 90% easier with seamless integration into the Open Payments Marketplace (OPM)

TrapSence

- Engineered a secure microservice with advanced cryptographic operations, optimizing performance and ensuring security compliance.
- TrapSence is a secure microservice powered by AWS Nitro Enclaves for cryptographic operations.
- Supports protocols like vsock, gRPC, REST API, and an API gateway for protocol upgrades.
- Functions as a honeypot, monitoring user activity and IP addresses to enhance security.
- Integrates OpenTelemetry and Uber Jaeger for distributed tracing and observability.

EDUCATION

Certified Penetration Tester,

RedTeam Hacker Academy

2020 - 2021

Bachelor of Computer Applications (Private)

Rabindranath Tagore University

2021 - 2024