

YOSEF SHULMAN

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SENIOR SOFTWARE ENGINEER / ARCHITECT

Specialist in High-Throughput Data Pipelines, Legacy Modernization & Real-Time Systems.
Proven track record in Financial Services, Cyber Security, and Scientific Research.

- 13+ years driving architectural evolution and legacy modernization.
- Expert in .NET/Kubernetes ecosystems, delivering performance gains and cost reductions.
- Hands-on with advanced patterns: Event-Driven Architecture, CQRS, and GitOps.
- Committed to reliability (SRE practices), observability, and security-first development.

Development Methods

Distributed Systems (Cloud-Native) | Domain-Driven Design (DDD) | TDD | CI/CD | AI/ML

Skills

.NET, C#, Python, TypeScript, Rust, Node.js, WebRTC, WASM, React, Angular, GraphQL, PostgreSQL, MongoDB, Redis, Elasticsearch, SOLR, RabbitMQ, Kafka, Kubernetes, ConfigOps, Docker, AWS, Nginx, Terraform.

Core Competencies

Microservices, Event-Driven Architecture, High-Availability Systems

EXPERIENCE

Senior Software Developer

Kiwibank, New Zealand, 2025 – Present

- Architected Kubernetes "ConfigOps": Decoupled runtime state by migrating legacy configuration to ConfigMaps, eliminating database concurrency bottlenecks.
- Optimized .NET/GraphQL Layer: Refactored resolvers with aggressive caching and batching, reducing core banking infrastructure load by 12%.
- Modernization & Compliance: Led migration of User Accounts and Transaction APIs to latest .NET versions, ensuring security compliance and higher throughput.
- Reliability Engineering: Managed critical incident resolution for distributed digital banking systems and participated in on-call rotation.

Full Stack Software Engineer

Manaaki Whenua - Landcare Research Institute, New Zealand, 2023 – present day

- 100x Performance Improvement: Re-architected biological specimen export system. Decoupled document processing from client requests, increasing CSV export throughput from 300 to 30,000 units.

- Search Infrastructure: Implemented SOLR indexing pipelines to replace on-the-fly XML conversion, enabling sub-second retrieval of deep-nested research data.
- Legacy Modernization: Systematically reduced technical debt by refactoring legacy .NET monoliths into maintainable, testable core services.

Senior Full Stack Developer

Rapid7, Israel, 2022 – 2023

- MongoDB Sharding & Optimization: Analyzed query performance across multi-region sharded clusters. Refactored indexing strategies to reduce dashboard latency from 12s to 3.4s (3.5x improvement).
- ML-Based Security Tooling: Developed a Phishing Detection System using decision trees and image recognition to identify malicious patterns in real-time.
- Threat Intelligence Pipeline: Built scalable ingestion pipelines using Node.js, Python, and Elasticsearch, implementing custom text analyzers for high-precision threat search.
- Production Reliability: Part of production issues mitigation and response team on-call.

Senior Software Engineer

GoTech, Israel, 2021 – 2022

- Monolith Decomposition: Applied the Strangler Fig Pattern to migrate a legacy PHP/Apache application to Node.js microservices, achieving zero downtime.
- Event-Driven Architecture: Implemented RabbitMQ and Redis to decouple client requests, resulting in 3x concurrent request capacity.
- Security Architecture: Built a centralized Authentication/Authorization service using NestJS and AWS Cognito for HIPAA-compliant health care data access.

Software Engineer

BA-Link, Israel, 2020 – 2021

- Custom Real-Time Communication: Architected a WebRTC video/voice solution from scratch (including custom STUN/TURN implementation).
- .NET Core Migration: Led the migration of enterprise CRM systems from .NET Framework to .NET Core, ensuring backward compatibility.
- Component Architecture: Developed reusable Typescript Web Components for high-scale Sales Force based business management software.

Web Developer Contractor

Self-Employed, USA, 2016 – 2019

- Implemented business administrative software for Automotive and Real Estate industries.

- Wrote ReactJS (MERN) applications according to set requirements. Developed detailed documentation, testing and performance benchmark. Resulted in easy project adoption by client's development group.

- Web applications set up and deployment to GCP and AWS.

Junior Web Developer

LLC Target Web, Russia, 2013 – 2016

- Create WordPress and Laravel based Web Applications for multiple customers.

- Static HTML, CSS, JS based websites.

- Worked with clients to develop project plans with forecasts, estimates, and resource assignments.

AREAS OF EXPERTISE

Distributed Systems, Cloud-Native Infrastructure, Application Security, Real-Time Data Pipelines.

EDUCATION

University of London, UK, 2022 – 2026 (Expected)

Bachelor of Science, Computer Science.

Specialization in: Machine Learning & Neural Networks, Intelligent Signal Processing.

South Federal University, Russia, 2007 – 2012

Masters's Degree, Geo technical and Geo environmental Engineering

CERTIFICATIONS

Oracle's Micro-service Architecture Course, [AWS Certified Cloud Practitioner](#), [Ethical Hacking Course: Network Security](#), [TCP/IP Training Course](#), [The Complete IP Subnetting Course](#)

Languages

English, Hebrew, Russian

Interests

Radio Technologies and Computer Vision, Food & Cooking, Science-Fiction & Classic Literature

Location and Citizenship

located in Wellington, New Zealand. Permanent Resident.

Job Status

I am currently working in [Kiwibank](#)