

VASILIOS SYRAKIS

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Systems engineer specializing in high-throughput traffic control, distributed platforms, and resilient control planes. I eliminate architectural bottlenecks where performance, fault tolerance, and developer velocity intersect

TECHNICAL EXPERTISE & CORE COMPETENCIES

Software

Backend systems, network services, distributed systems, internal developer platforms, automation, performance optimisation, agentic engineering

Infrastructure

AWS, Infrastructure as Code, Kubernetes, edge compute

Leadership

Training, mentoring, architecture & design, RFCs, diagramming, documentation

Networking

TCP/IP, DNS, HTTP/HTTPS traffic management, traffic shaping, rate limiting, DDoS mitigation

Operations

High-severity incident response, complex troubleshooting, security

Languages

Rust, Python, Lua, Bash

PROFESSIONAL EXPERIENCE

Atlassian | Senior Systems Engineer · Jan 2018 - Mar 2026

Built Atlassian's global load-balancing edge from the ground up - infrastructure as code, image pipelines, and supporting services - migrated all internal traffic onto it, then extended it with authentication, rate-limiting, and policy enforcement, while mentoring and training the team.

- Architected a global, self-service reverse-proxy platform spanning 13 regions on Envoy and AWS, replacing unprotected ALBs and standardising observability across all microservices, routing 50+ billion requests per day.
- Built a DynamoDB-backed FastAPI service broker with SQS workers, enabling automated, asynchronous resource provisioning.
- Open-sourced a stateless JSON-REST xDS control plane (Python/FastAPI) with customisable templating, adopted by multiple engineering teams.
- Defined the team's configuration-management and image-building strategy, establishing HashiCorp Packer and masterless SaltStack as the foundation.
- Built a Rust/gRPC sidecar enforcing dynamic authentication and authorization policies across 15+ billion daily requests, with minimal latency and CPU overhead.
- Rewrote all Rust, Lua, and WASM codebases into Golang within a 6-week window as part of the company's FedRAMP compliance push, for deployment inside the federal boundary.
- Re-engineered legacy codebases, cutting response times from seconds to milliseconds and reducing DynamoDB read units, CPU, and network usage by 10x or more.
- Designed a bespoke, event-driven service-discovery mechanism that let proxy infrastructure bypass AWS ALBs, cutting network costs by \$1M+ per year.
- Mentored an intern through delivery of a full-stack network-diagnostics application, earning them a "Greatly Exceeded" rating.
- Led and supported multiple high-severity operational incidents - troubleshooting, mitigation, root-cause analysis, and post-incident review.

Tyro Payments | Systems Engineer · Dec 2015 - Jan 2018

- Delivered operations, DevOps, and configuration management; automated end-to-end VMware VM provisioning.

Offis Pty Ltd | Systems Administrator · Feb 2012 - Dec 2015

- Provided systems administration for an MSP operating a private data centre with colocated racks.