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Software Engineer

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Professional Summary

Systems Software Engineer specializing in cloud-native technologies, eBPF, and Kubernetes. Proven open source contributor to CNCF graduated projects (Cilium, CoreDNS) with a focus on networking protocols, security, and low-level systems programming in Go and Rust.

Open Source Contributions

Open Source Contributor

Cilium (CNCF Graduated Project)

Remote

Apr 2025 – Present

- Fixed Gateway API reconciler crash when TLSRoute CRD is absent, preventing production deployment failures ([PR #38874](#))
- Resolved routing misconfiguration by implementing Group and Kind validation for parentRef matching per Gateway API specification ([PR #39275](#))
- Authored egressDeny policy documentation, backported across v1.16–v1.18 branches ([PR #40272](#))

Open Source Contributor

CoreDNS (CNCF Graduated Project)

Remote

Jul 2025 – Present

- Fixed SRV record case handling to comply with RFC 6763 for proper mDNS/DNS-SD service discovery ([PR #7402](#))
- Corrected TXT record comparison logic per RFC 1035, merged into v1.12.3 ([PR #7413](#))
- Eliminated flaky multisocket tests via fresh port allocation and channel-based cleanup ([PR #7438](#))

Open Source Contributor

CoreDNS Plugins

Remote

2024 – Present

- Refactored plugin test framework for improved maintainability and test isolation ([PR #7798](#))
- Enhanced monitoring endpoints for better observability and debugging ([PR #7799](#))

Open Source Contributor

Sourcemeta Core (JSON Schema Library)

Remote

Nov 2025

- Replaced hash map-based vocabulary lookups with bitset-based approach, achieving O(1) lookups for 29 JSON Schema vocabularies ([PR #2040](#))
- Designed hybrid data structure with `unordered_map` fallback for custom vocabularies, maintaining backward compatibility

Open Source Contributor

Kagent (Kubernetes AI Agent Platform)

Remote

Dec 2025

- Fixed agent deletion bug by standardizing ID format consistency, eliminating orphaned records ([PR #1178](#))

Technical Projects

Purple AI Sandbox — Rust, eBPF, Seccomp BPF, Linux Namespaces, Cgroups v2, Tokio, Axum

Secure runtime for untrusted AI agents with multi-layer defense: eBPF packet filtering, syscall validation, resource enforcement. Features pre-built security profiles, REST API with auth, and JSON audit logging. Demonstrates systems programming, security sandboxing, and cloud-native skills.

breveTest — Java, Maven, REST APIs

Declarative API testing framework enabling REST testing without code. Tests defined via .breve config files with automatic discovery during Maven builds. Supports all HTTP verbs and CI/CD integration. Showcases API design and testing expertise.

Skills

Languages

Go, Rust, C, C++, Python, TypeScript, Java

Cloud Native & Infrastructure

Kubernetes, Cilium, Gateway API, eBPF, Network Policies, Service Mesh, DNS Protocol, Cgroups v2, Linux Namespaces, Service Discovery

Systems Programming

Performance Optimization, Security Sandboxing, Operating Systems, Multi-threading, Memory Management, TCP/IP Networking

Tools & Practices

Git, GitHub Actions, CI/CD, Tokio, Axum, Maven, Observability, Debugging

Education

Master of Computer Applications (MCA)

2024

Andhra University, Visakhapatnam, India

- Focus: Distributed Systems, Algorithms, Data Structures, Operating Systems, Computer Networks, Database Management, Software Engineering