

Azeez Alishah Hussain Syed

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)

Andhra University, Visakhapatnam, India

2024

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