

# Azeez Alishah Hussain Syed

Software Engineer

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## Professional Summary

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Systems-focused Software Engineer with proven contributions to major CNCF projects including Cilium and CoreDNS. Experienced in performance optimization, cloud-native networking, and security sandboxing across Go, Rust, and C++. Demonstrated ability to navigate complex codebases, implement RFC-compliant solutions, and collaborate effectively with open source maintainers. Passionate about systems programming, Kubernetes infrastructure, and building secure, high-performance software.

## Open Source Contributions

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### 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
- Refactored 19 files across walker, bundle, and alterschema modules (497 additions, 129 deletions)

### Open Source Contributor

#### Cilium (CNCF Graduated Project)

*Remote*

Apr 2025 – Present

- Fixed Gateway API reconciler crash when TLSRoute CRD is absent ([PR #38874](#))
- Resolved routing misconfiguration by implementing proper Group and Kind validation for parentRef matching ([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 multiset tests via fresh port allocation and channel-based cleanup ([PR #7438](#))

### 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](#))

## Education

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### Master of Computer Applications (MCA)

Andhra University, Visakhapatnam, India

2024

## Skills

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**Languages:** Go, Rust, C++, Java, TypeScript, Python

**Systems & Networking:** eBPF, Seccomp BPF, Linux Namespaces, Cgroups v2, DNS Protocol, Service Discovery

**Cloud Native:** Kubernetes, Gateway API, Cilium, CoreDNS, Network Policies, Controllers

**Tools & Practices:** Tokio, Axum, Maven, Git, GitHub Actions, Performance Optimization, Security Sandboxing

## Projects

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**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.

**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.