

Kunal Janghel

Software Staff Engineer · AI Agents & Application Security

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Highlights — MCP + RAG server giving Claude authenticated access to the WAAS control plane · Tech lead on AI security middleware for LLM traffic across Barracuda products · Cut WAAS infra cost **~60% (≈\$337,920/year)** via multi-tenant rebuild.

Summary

I build production **AI agents** and the **security infrastructure** that sits around them. **Software Staff Engineer at Barracuda Networks**; designed and shipped an MCP server with RAG over a ~20K-line OpenAPI spec (**496 operations across 77 categories**), giving Claude and other MCP-compatible agents authenticated access to the WAAS control plane. Currently tech lead on an **AI security middleware** fronting LLM traffic across Barracuda products: prompt-injection defence, DLP, and conversational-intent analysis behind a single REST contract. Eight years overall — seven and a half at Barracuda across Python/Django, React, Azure, and Kubernetes; cut WAAS infrastructure cost **~60% (≈\$337,920/year)** via a multi-tenant rebuild.

Skills

AI & AGENTS

RAG, MCP (Model Context Protocol), vector search, embeddings, function calling / tool use, evals, OpenAI & Anthropic SDKs, prompt security, LLM Guard, Claude integration

CLOUD, DEVOPS & OBSERVABILITY

Azure, Docker, Kubernetes, Kustomize, Terraform, Jenkins, OpenTelemetry, Datadog, multi-tenant SaaS

SECURITY

Web Application Firewall, WAAS, DLP, prompt-injection defence, OWASP Top 10, threat modeling, JWT validation, multi-tenant access control

BACKEND

Python, Django, FastAPI, REST, JSON-RPC, JWT / JWKS / OAuth, PostgreSQL, Redis, ClickHouse

FRONTEND

React, TypeScript, JavaScript

LEADERSHIP

Tech lead, design-doc / ADR author, mentor, on-call escalation owner, internal tech-talk lead

Selected Projects

MCP Server with RAG for the WAAS Control Plane

Sole architect through POC, then tech-led production hardening · 2026

- Designed and built an MCP server (Python, Streamable HTTP at /mcp) so **Claude and other MCP-compatible agents** answer natural-language questions against the WAAS v4 control plane (e.g. "how many applications do I have for account 123?").
- Built a RAG pipeline over a ~20K-line OpenAPI spec covering **190 paths, 496 operations, 77 tag categories**: YAML parsing, `$ref` denormalization, per-operation chunking, OpenAI embeddings, in-memory vector search with tag-name keyword boost, read-only filter for Phase-2 safety.
- Built an automated eval harness (**21 test cases**, cosine-similarity scoring) covering positive intent matches and adversarial negatives; gates every production release.
- Implemented JWKS-based access-token validation and per-account authorization on every tool call; zero auth weakening across POC vs production modes.
- Designed a single-image, two-overlay deploy model so the same Docker artifact ships to a public POC and a VPC-only private mode (internal transit gateway) via a one-line Kustomize cutover.

WAAS Multi-Tenant Migration: 60% Infrastructure Cost Reduction

Lead engineer · Barracuda Networks

- Identified that the SaaS platform's single-tenant container model was the dominant driver of VM spend; pitched, prototyped, and shipped the migration to a multi-tenant container architecture.
- POC to production rollout cut **VM cost by ~60% (≈\$337,920/year savings)** while preserving tenant isolation and per-tenant configurability.

Passive Vulnerability Scanner

- Built a non-invasive scanner (curl-class probes, DNS / NS lookups, safe surface checks) now used by Barracuda sales engineering as the opening artifact in customer-qualification calls.

Experience

Software Staff Engineer · Barracuda Networks · Remote, Bengaluru · Jun 2026 – present

- Tech lead on an **AI security middleware** fronting LLM traffic across Barracuda products — a unified content inspection service providing prompt-injection defence, DLP, and conversational-intent analysis behind a single REST contract.
- Sole architect on the **WAAS MCP / RAG server** (see Projects) — drove design through POC, then tech-led production hardening; ships as the canonical natural-language interface to the WAAS v4 control plane for Claude and other MCP-compatible agents.
- **Production escalation SME** for WAF and WAAS critical incidents; led root-cause and resolution across **hundreds of enterprise customer escalations** on live environments.
- Established the ADR practice now used as the default proposal format across the WAF and WAAS backend teams; design docs and ADRs adopted by adjacent product teams.

Senior Software Engineer · Barracuda Networks · Remote, Bengaluru · Jun 2023 – May 2026

- Drove the **WAAS multi-tenant container migration** end-to-end (see Projects) — pitched, prototyped, and shipped the rebuild that cut VM cost ~60% (≈\$337,920/year).
- Owned WAF / WAAS feature delivery across Django, React, and infra (Azure, K8s, Terraform, Jenkins) — JWT validation, snapshots, app groups, audit logs.
- Established and led a recurring internal **tech-talk and design-review series** for the backend org.
- Mentored junior engineers on the WAF / WAAS backend; author of design docs and ADRs adopted by adjacent product teams.

Software Engineer · Barracuda Networks · Remote, Bengaluru · Jun 2021 – May 2023

- Built and shipped customer-facing features across the WAF / WAAS web application (Django backend, React frontend) on fast product timelines.
- Took sole ownership of an in-flight cross-region project handoff and delivered it end-to-end on-site with the originating team.
- Built internal tooling that materially improved escalation response time and supported pre-sales engineering.

Associate Software Engineer · Barracuda Networks · Bengaluru · Jan 2019 – May 2021

- Shipped fixes and features in the WAF release stream; wrote Perl / Python automation; modernised legacy AngularJS surfaces and ramped on React in-role.

Software Engineer Trainee · Infosys · Mysore / Bengaluru · Jul 2018 – Dec 2018

Education

B.Tech, Computer Science

Maharishi Markandeshwar University, Haryana, India · May 2018