

Abhilash Honnavalli Puttaiah

Security Product Engineer | CDN · Bot Management · Edge Security · Fraud Prevention
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PROFESSIONAL SUMMARY

Security Product Engineer with 14 years across Akamai Technologies specializing in large-scale bot detection, fraud prevention, and CDN edge security systems serving Fortune 500 banks, retailers, and media companies globally. Architect of Akamai's Scraper Score detection engine and edge security metadata layer processing 200M+ daily requests; delivered £3M in infrastructure cost savings for British Telecom and drove 21 enterprise migrations with zero SLA breaches. BITS Pilani MS graduate, AWS and Microsoft Azure certified, currently targeting Security Architect, Security Product Engineer, and Technical Product Manager roles where the problem is hard and the stakes are real.

CORE COMPETENCIES

Security & Fraud Prevention: Bot Management, Fraud Prevention Engineering, Web Scraping Detection, DDoS Mitigation, WAF, Rate Limiting, API Security, SSL/TLS, Credential Stuffing Prevention, Account Takeover (ATO) Mitigation

Cloud & Edge Infrastructure: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform, CDN Architecture, DNS Architecture, Edge Computing, Load Balancing, High-Availability Systems

Engineering & DevOps: Python, REST APIs, Akamai as Code, CI/CD, DevOps, SDLC, Agile, SCRUM, API Gateway

Product & Architecture: Technical Product Management, Solutions Architecture, Pre-Sales Engineering, Customer Engineering, Cross-functional Leadership, Enterprise Integration

WORK EXPERIENCE

Senior Software Engineer II — Security Product Engineering

June 2022 – Present

Akamai Technologies · Bengaluru, India · 4 years

After 6+ years architecting CDN and edge delivery solutions for Akamai customers, transitioned into cybersecurity product engineering to build large-scale bot detection and fraud prevention systems within Akamai Bot Manager.

- Cut detection-to-route latency by **~35%** across 200M+ daily bot-screening requests by architecting a purpose-built edge security metadata layer that executes real-time classification decisions at CDN edge nodes — eliminating round-trip backend dependency for the majority of Bot Manager traffic.
- Reduced web scraping-related revenue leakage for e-commerce and media clients generating billions in annual revenue by engineering the **Scraper Score** detection engine — an ML-assisted classification system for Akamai Content Protector that flags evasive bots via behavioural request-level signals before data exfiltration occurs.
- Eliminated single-point-of-failure risk for Fortune 500 fraud-prevention infrastructure by designing a highly available DNS load balancer for Bot Manager's backend cluster fleet, achieving **99.99% uptime** across all managed deployments.
- Drove 100% on-time migration of **21 enterprise** tech-preview customers to production beta with zero SLA breaches, owning end-to-end escalation management and cross-team bug triage — reducing post-migration support volume by **~40%**.
- Facilitated rapid integration of 2 interns and 10 new hires through structured onboarding sessions, enabling full task contribution within 2 months and compressing team ramp-up time by an estimated 30%.

Senior Solutions Architect

January 2016 – May 2022

Akamai Technologies · Bengaluru, India · 6 years 5 months

- Accelerated CDN configuration deployment by **~30%** for 10+ Fortune 500 enterprise customers across banking, retail, and media verticals by implementing Akamai-as-Code frameworks that embedded configuration management directly into customer CI/CD pipelines.
- Shaped feature prioritisation and accelerated product readiness for **3 Akamai** platform-scaling initiatives by serving as the cross-functional SME bridge between Solutions Architecture and Engineering — delivering structured beta feedback that measurably improved integration quality scores across the SA organisation.

- Maintained a **zero failed go-live** record across 20+ enterprise account deployments on Akamai's Web Performance and Security platform, coordinating end-to-end technical integration across EMEA Sales, Platform Engineering, and Customer Success.
- Directly contributed to APAC regional quota attainment by leading pre-sales technical evaluations and solution architecture engagements for **15+ enterprise accounts** — accelerating deal velocity through PoC delivery and real-time executive objection handling.

Consultant

May 2015 – August 2015

BT Group (British Telecom) · Belfast, United Kingdom · 4-month contract

- Delivered **£3M** in verified infrastructure cost savings for British Telecom by leading the end-to-end migration of 500+ enterprise clients from legacy Sentry API gateway to Vordel cloud platform — achieving zero downtime across a 4-month delivery window through meticulous cutover sequencing and continuous C-suite stakeholder alignment.

Design & Development Engineer → Software Engineer

May 2012 – January 2016

Tech Mahindra · Bengaluru, India · 3 years 9 months

- Delivered end-to-end API gateway implementations for enterprise customers across 3 industry verticals, owning full-cycle policy development, infrastructure configuration, SSL/TLS security setup, and production issue resolution — maintaining **zero post-deployment** production incidents.
- Designed and developed web services, enterprise applications, and security integrations involving SSL/TLS, HTTP authentication, certificate management, and key-based access control mechanisms for financial and telecom clients.
- Drove Agile/SCRUM delivery across full software lifecycle, designing comprehensive functional and non-functional test strategies that validated application reliability and scalability against QA objectives.

EDUCATION

Master of Science — Telecommunications & Software Engineering

Graduated June 2015

Birla Institute of Technology, Pilani (BITS Pilani) · Distinction

Bachelor of Engineering — Telecommunications Engineering

Graduated April 2011

Visvesvaraya Technological University · First Class

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate · Amazon Web Services
- AWS Certified Developer – Associate · Amazon Web Services
- Microsoft Certified: Azure Fundamentals · Microsoft
- Associate Cloud Engineer · Google Cloud

AWARDS & RECOGNITION

- **Most Impactful Person Award** — Recognised by Torsten, VP of Global Services, among a team of 210 members for customer-first attitude and consistent cross-team contribution.
- **Akamai STG Thunderclap Award** — Security Engineering recognition for thoroughness in grasping product intricacies and ensuring timely delivery of Content Protector in beta.
- **Webex Bot Hackathon Runner Up II · 2025** — Built a time-tracking tool that improved billing accuracy and productivity across Akamai.
- **Akamai Spot Awards · Q3 FY16, Q1 FY18, Q2 FY18** — Including SVP recognition for migrating 10 major customers from Instart CDN to Akamai within a challenging deadline.