Muhammad Ahmad

E: muhammadahmad789124@gmail.com | **L:** https://www.linkedin.com/in/muhammad-ahmad-sec **GH:** https://github.com/neero0x01 **P:** https://www.neero0x01.tech | **A:** London, UK

SUMMARY

Software engineer with an Msc in Cyber security Management, with 4+ years of experience across Cloud Infrastructure, Artificial Intelligence Integration, Cyber Security and Software Development. I am actively seeking roles as **Software Engineer** or **Full Stack Engineer**

EDUCATION

MSc in Cyber Security Management | **Distinction** | Ravensbourne University London | May 2025 – May 2026

- **Modules:** Cyber Security Principles, Cyber Security Risk Management, Strategic Cyber Security Management
- **Dissertation:** Preventing the Inevitable?A Gap Analysis of Prevention-Focused Solutions for the OWASP Top 10 Agentic Application Vulnerabilities (2026)

BSc (Hons) in Computer Science | **Distinction** | GIFT (Gujranwala Institute of Future Technology) University | September 2018 - September 2022

- **Modules:** Distributed Systems, Software Engineering, Data Structures and Algorithms
- **Final Year Project:** NFT Club, a **Blockchain-Based** Secure Marketplace Platform

WORK EXPERIENCE

IT Support Officer | Waltham International College | December 2025 - June 2026 | London, UK

- Resolved 1,500+ IT support tickets across Office 365, Moodle, eVision, and Microsoft Authenticator/MFA, reducing average ticket resolution time by 23% through effective triage and troubleshooting of access, authentication, and platform issues for staff and students.
- Stood up 3 computer labs for 200 students end to end including Windows installation, domain setup, client connectivity, LAN configuration, and RJ-45 cabling — building working teaching environments from bare hardware.

Full Stack Engineer | Red Buffer AI | October 2024 - June 2025 | Remote, Delaware, United States

- Engineered the integration layer of an AI-driven content-moderation platform, wiring OpenAI and a teammate-owned custom ML model into the product alongside two ML engineers to surface a web-grounded fact-check flag that checked content against current events.
- Built configuration-driven moderation filters as an admin control surface, letting non-engineers toggle profanity and adult-content blocking without code changes.
- Built an admin review panel with advanced data filtering and pagination, improving the efficiency of reviewing and resolving user appeals on moderated content by 25%.
- Conducted 60+ peer code reviews monthly for engineers, junior developers, and interns, strengthening code quality, reducing security vulnerabilities (including SQL injection and XSS risks), and contributing to around 30% improvement in application performance.
- Worked within a GitLab CI pipeline for automated build and test on every change for automated and seamless code builds and deployments.

Software Engineer | Brackets Private Limited | August 2023 - October 2024 | Remote, California, United States

- Architected a healthcare platform as a system of 11 NestJS microservices backed by a detailed PostgreSQL ERD and aligned to FHIR and HL7 standards, establishing clear service boundaries for clinical data exchange.
- Implemented JWT-based authentication and role-based access control via NestJS guards on the FHIR/HL7 healthcare platform, protecting endpoints and enforcing patient-data access control across services.
- Strengthened the CI security posture by integrating SonarQube (SAST) and Snyk (SCA) scanning into the GitHub Actions pipeline alongside compile, type-check, and build steps, surfacing code-quality and dependency vulnerabilities earlier in the development cycle.
- Contributed to migrating the data-access layer from Prisma to TypeORM across the NestJS services, helping rewrite data access and keeping schema migrations versioned in the repository.
- Configured dead-letter queues for failed-message handling on AWS SQS, improving the resilience of asynchronous inter-service communication.
- Designed and implemented hybrid Stripe billing workflows supporting metered usage, seat-based subscriptions, and dynamic tiered pricing, automating invoice generation and improving cash collection by 31%.
- Integrated gRPC and AWS SQS/SNS for communication between microservices, improving system reliability by 19%.
- Wrote Jest unit tests across the service layer and added integration tests on the critical Stripe payment paths, concentrating

coverage where financial correctness mattered most.
- Built fully responsive interfaces with Next.js, Tailwind, and DaisyUI, increasing mobile and tablet usage by 36% and reducing bounce rate by 25%.
- Contributed to team remediation of dependency and code-quality issues surfaced by the automated SAST/SCA scans.
- Used CloudWatch and Sentry to debug and triage production issues across the microservices.
- Ran Lighthouse audits as part of the release process to track performance and quality, fixing quick wins immediately and triaging larger findings into the backlog.
- Documented the API using Swagger/OpenAPI via the NestJS Swagger module.

Software Engineer | Cacilian | October 2022 - September 2023 | Remote, United States
- Built an internal onboarding dashboard using Next.js, React, PostgreSQL, Sentry, PostHog, Supabase to manage, sort, and filter client records and surface onboarding progress for 780+ clients, letting managers retrieve client totals 40% faster.
- Developed RESTful APIs in Express.js, including an external 18-endpoint API that returned client data as JSON for programmatic access.
- Converted the SOC Portal — an existing web app with 1,500+ monthly users — into a fully responsive application, restoring full usability for mobile and tablet users.
- Operated and maintained Terraform-managed AWS infrastructure (ECS Fargate, ECR, SQS, S3), applying configuration changes across environments against existing definitions.
- Containerized the Cacilian product line (3 applications) with Docker and docker-compose for local development and deployment to AWS ECR.
- Managed frontend state with Redux Toolkit and React Context for cross-cutting concerns.

Associate Software Engineer | Gapp Co | November 2021 - July 2022 | Remote, United Arab Emirates
- Designed an MVP client of a multi-tenant Ecommerce NextJS application from scratch using TailwindUI for rapid development, reducing the turnaround time by 70%.
- Set up a pipeline with AWS SQS for making a build for react native application for tenants, which then uploads the APK artifact to an S3 bucket.

PROJECTS

NFT Club
- Engineered gas-efficient Solidity smart contracts using OpenZeppelin libraries and MythX formal verification, mitigating reentrancy, overflow, and front-running risks ahead of deployment.
- Built a TypeScript Next.js/Express.js application hardened with encrypted APIs, input sanitization, and Content-Security-Policy headers to guard against XSS and CSRF, protecting data end-to-end for 1,000+ users.
- Integrated MetaMask with EIP-712 typed-data signing and session management to defend against phishing and unauthorized access, supporting tamper-resistant Ethereum transactions for 500+ monthly active users.

LANGUAGES, SKILLS, AND CERTIFICATES

- **Languages:** English (Fluent), Urdu (Native proficiency), Punjabi (Native proficiency), Hindi (Professional proficiency)
- **Skills:** Python, TypeScript, JavaScript, Node.js, NestJS, ExpressJS, Next.js, Docker, Terraform, AWS (SQS, SNS, ECR, S3), PostgreSQL, MongoDB, Microservices, REST APIs, gRPC, OSINT, Secure Coding, OpenAI APIs.
- **Certifications:** Cloud Architect on AWS by Isovalent, Create Your First Gemini Enterprise Application by Google, Amazon Web Services (AWS) for Developers