

MUHAMMAD AHMAD

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• [LinkedIn](#) • [Github](#) • London, United Kingdom

Professional Experience

[Redbuffer](#)

Gujranwala, Pakistan

IT Services and IT Consulting

Software Engineer: (10/23 – Present)

- Architected a robust healthcare platform using Microservices with NestJS, successfully deploying **11 microservices**. Additionally, crafted a detailed database ERD to streamline data management and enhance system coherence.
- Implemented complex payment workflows with Stripe, enhancing invoicing efficiency by **31%**.
- Integrated gRPC and AWS SQS/SNS for seamless communication between microservices, boosting system reliability by **19%**.
- Utilized **Next.js**, Tailwind, and DaisyUI to create fully responsive and user-friendly designs, leading to a **36%** increase in mobile and tablet usage and reducing bounce rates by **25%**

[Brackets Private Limited](#)

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[Cacilian](#)

Remote, United States

Cyber Security Auditing Automation Platform

Software Engineer: (10/22 – 09/23)

- Build an internal company dashboard to manage, sort, and filter onboarding clients and their progress for **780+** clients, allowing managers to access client totals **40%** quicker.
- Develop RESTful APIs, including an external API with **18** endpoints that returns client data in JSON format for clients to access programmatically using ExpressJS.
- Convert SOC Portal, an existing web app used by **1500+** monthly users, into a fully responsive web application, resulting in full usability for mobile and tablet users.
- Containerize Cacilian product line (**3 Apps**) with docker and docker-compose for local development and deployment on AWS ECR.

Education

Ravensbourne UNIVERSITY

London, United Kingdom

MSc Cyber Security Management

(05/25 -Present)

GIFT UNIVERSITY (2.85 / 4.0)

Gujranwala, Pakistan

Bachelor (Hons) of Science in Computer Science

(11/18 - 11/22)

Research Projects

GIFT UNIVERSITY

Gujranwala, Pakistan

Final Year Project

Team lead of group of three: (10/21 – 10/22)

- Engineered gas-efficient Solidity smart contracts using OpenZeppelin libraries and formal verification (MythX), mitigating reentrancy, overflow, and front-running attacks to ensuring secure deployment.
- Built a TypeScript-based Next.js/Express.js application with encrypted APIs, input sanitization, and CSP headers to eliminate XSS/CSRF risks, ensuring end-to-end data protection for 1,000+ users.

- *Integrated MetaMask with EIP-712 typed data signing, session management to prevent phishing and unauthorized access, achieving tamper-proof Ethereum transactions for 500+ monthly active users.*

Extracurricular

CTF challenges

Online

- Take part in various **CTF challenges** regarding web application penetration testing. Like HackTheBox, TryHackMe and VulnHub to better understand the impact of secure web practices.

ONLINE COURSES

Online

- Amazon Web Services (AWS) for Developers - LinkedIn Learning (2023)
- Attended web security workshops and cloud computing webinars.

INTERNATIONAL EXPOSURE

- Hacker Halted Conference (2021)
- Collaborated remotely with teams in the United States and Dubai (2021–2023).

Additional

- *Technical Skills:* OSINT, Bash scripting, effective note taking for recon, Python, Node.js, Next.js, NestJS, Typescript, Docker, Express, MongoDB, Postgres
- *Interests:* Cybersecurity, technology trends, networking and being better communicator
- *Languages:* English, Urdu, Hindi and Punjabi
- *Hobbies:* Self-help books, exploring and learning new technologies, Travel and try new food.