

Education

B.S. in Information Technology, Pakistan | 2015-2019
Faculty of Computing & Information Technology
University of the Punjab (QS world Ranking: 570)

Intermediate in Pre-Engineering, Pakistan | 2013-2015
F.Sc. Higher Secondary School Examination
Punjab Colleges

Matriculation, Pakistan | 2011-2013
Secondary School Examination
Laurelbank Public School

Work Experience

Accelyrate / AccelyCase, USA | 2026 – Present
Cloud Security & Compliance Lead (Remote)

- Spearheaded the design and development of AccelyCase, a HIPAA-compliant medical record automation platform tailored for personal injury law firms.
- Engineered a robust frontend using React, TypeScript, and Vite, featuring advanced provider management and automated document generation workflows.
- Architected a Node.js API with Fastify and PostgreSQL, integrating Firebase Identity Platform for secure, role-based access control and comprehensive audit logging.
- Managed sensitive document security through Google Cloud Storage, utilizing signed URLs to ensure HIPAA compliance for critical legal attachments.
- Orchestrated Google Cloud deployment using Cloud Run, Cloud SQL, and VPC private networking, supported by automated Cloud Build CI/CD pipelines.
- Strengthened overall security posture by transitioning sensitive data to API-backed persistence and implementing token-protected routing and redacted logging.

Gondli., Switzerland | 2024 – Present
Tech Lead (Remote)

- Promoted to Tech Lead after successfully leading a comprehensive overhaul of the core product architecture.

- Engineered the migration of the legacy system to a fully serverless AWS architecture, drastically enhancing scalability and resilience.
- Optimized cloud infrastructure, achieving significant reductions in operational costs and deployment cycle times.
- Established robust data security mechanisms to ensure compliance with stringent Swiss data protection and insurance documentation regulations.
- Directed feature development for the secure handling of insurance receipts and external third-party data exchange.

Pligence, Wilmington, DE, USA | 2024

Research Contractor

- Conducted deep research and development in cybersecurity, specializing in iOS Mobile Device Management (MDM) solutions.
- Contributed to the design of secure, resilient architectures for enterprise-level applications.
- Developed the product's comprehensive licensing and access control system.

Vision Surgery, San Francisco, CA, USA | 2023 - 2025

System Architect and DevOps Specialist (Remote)

- Designed and deployed scalable cloud infrastructure for serverless video analysis of surgical procedures, directly supporting surgeons in enhancing safety.
- Optimized system performance and enforced security protocols, achieving full HIPAA compliance for protected health information.
- Successfully presented the Minimum Viable Product (MVP) at WebSummit Qatar 2025.

MyOrderBox, London, UK | 2022 - 2023

DevOps Engineer (Remote)

- Managed and maintained highly available AWS cloud infrastructure, ensuring scalability for a nationwide UK POS system.
- Implemented comprehensive logging and monitoring using New Relic, Cloudflare Workers, and AWS CloudWatch.
- Streamlined deployment strategies by integrating AWS ElasticBeanStalk.
- Minimized system downtime through database optimization and the implementation of read replicas.
- Led successful cloud cost optimization initiatives, resulting in a 40% reduction in AWS expenses.

Wonderful Payments, London, UK | 2021 - 2023

Technical Consultant (Remote)

- Instrumental in the company's transition to an FCA-authorized payment solutions provider from a charity-focused platform.
- Designed and optimized CI/CD pipelines, significantly accelerating deployment cycles.
- Developed automated ETL pipelines to enhance the efficiency and accuracy of charity data processing.

Arway, Toronto, CA | 2022

DevOps & Data Analysis (Remote)

- Aggregated data from disparate components into a centralized data warehouse.
- Created interactive, real-time dashboards using AWS QuickSight and MySQL for operational insights.

Invoice Point, Rotterdam, NL | 2021 - 2022

Solution Architect (Remote)

- Designed and architected a microservices-based platform for invoicing and financial automation.
- Integrated key third-party payment gateways and accounting software to streamline transaction workflows.
- Enhanced system resilience by implementing fault-tolerant distributed systems.

Planet League, London, UK | 2021

Data Analyst (Remote)

- Analyzed large-scale user engagement data to formulate and optimize gamification strategies.
- Built interactive dashboards using AWS Aurora and QuickSight, providing real-time insights into campaign performance.
- Developed predictive models utilizing AWS QuickSight ML to enhance user retention and engagement.

Nooks, Lahore, PK | 2018 - 2020

Intern → Software Engineer

- Developed and maintained core web applications utilizing Ruby on Rails.
- Contributed to API development, focusing on database optimization.

- Assisted in DevOps automation efforts, streamlining application deployment on AWS.

Projects ---

whatnow — Encrypted Dead Man’s Switch Vault | Personal Project | 2026

<https://whatnow.hammza.com>

- Developed a zero-knowledge security vault designed to automate the transmission of encrypted messages following a period of owner inactivity.
- Utilized client-side AES-256-GCM encryption and passkey-based authentication to ensure sensitive data remains encrypted prior to leaving the local environment.
- Designed a serverless heartbeat mechanism using Cloudflare Pages Functions, Hono, and D1, supported by secure HTTP-only session management.

Finance Automation Platform | Personal Project | 2026

- Engineered a comprehensive financial management system on Cloudflare using Next.js and Drizzle ORM to centralize transaction and beneficiary data.
- Developed an AI-driven extraction engine that combines deterministic logic with Workers AI fallbacks for high-accuracy transaction processing.
- Integrated advanced analytics with Recharts and implemented secure passkey protocols alongside a feedback-driven learning system for data correction.

Awards ---

- Placed on the Dean’s Honour List for three consecutive years (2016-2018) during undergraduate studies at FCIT.
- Awarded a merit-based scholarship for academic performance during undergraduate studies.

Certificates ---

Google Cybersecurity Professional Certificate 08/2025

AWS Cloud Quest: Security 07/2022

AWS Cloud Quest: Cloud Practitioner 03/2022

AWS Cloud Quest: Machine Learning	03/2022
AWS Cloud Quest: Solutions Architect	02/2022
AWS Cloud Quest: Serverless Developer	02/2022

Volunteer Projects

Islam Accessible, Birmingham, UK 2022 - 2026
 Technical Lead

Publications

Query Optimization of MongoDB 2021

Around 25

<https://web.archive.org/web/20240910173244/https://around25.com/blog/how-to-do-query-optimization-in-mongodb>

MariaDB to Redshift - steps to move data in Minutes 2020

Hevo Data Inc

<https://hevodata.com/learn/mariadb-to-redshift>

Segment to Redshift: Move Data in Minutes 2020

Hevo Data Inc

<https://hevodata.com/learn/connect-segment-to-redshift-easily>

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