KAMRAN AZAM KHAN

Senior Software Engineer | Secure Systems Architecture | AI-Powered Systems

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Dublin, Ireland

PROFESSIONAL SUMMARY

Senior Software Engineer specializing in backend architecture, security-first system design, and AI/ML integration. Demonstrated expertise building GDPR-compliant platforms for legal-tech and fintech clients using Node.js, TypeScript, and microservices patterns, with measurable outcomes including 40% efficiency improvements. Currently pursuing MSc in Human-Centred AI at TU Dublin to strengthen AI/ML capabilities. Seeking remote Senior/Staff Software Engineer roles in product-driven companies where I can contribute backend architecture expertise while growing toward AI/ML Engineering positions.

KEY AREAS OF EXPERTISE:

Languages	JavaScript, TypeScript, Python
Backend	Node.js, NestJS, Express.js, FastAPI, Flask, REST APIs, WebSockets, Socket.IO
Frontend	React, Next.js
Databases	PostgreSQL (Prisma, TypeORM), MongoDB (Mongoose), Firebase (Firestore, Realtime DB)
Architecture	Microservices, System Design, Solution Architecture, GDPR Compliance, RBAC, Encryption (AES-256-GCM)
DevOps & Cloud	Docker, GitHub Actions, GitLab CI/CD, AWS, GCP, DigitalOcean, NGINX, Terraform, Ansible
AI / ML	OpenAI GPT-4, ElevenLabs API, TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, Whisper, AssemblyAI, LLM Integrations
Security	End-to-end Encryption, MFA, Step-up Authentication, Audit Logging, Privacy-by-Design, Data Protection

PROFESSIONAL EXPERIENCE

THINK LOUD AGENCY, LLC – SAN DIEGO, CA – REMOTE   May 2025 – Present
  SENIOR SOFTWARE ENGINEER & TECHNICAL PARTNER

- Partner in architecting and delivering secure, compliant legal-tech and fintech solutions from concept to production, evolved from contract engineer to technical partner through strategic ownership of system architecture, security design, and client engagement
- Lead solution architecture for multi-tenant SaaS platforms serving legal and financial services clients, defining technical strategy aligned with GDPR and regulatory requirements
- Engineered backend systems for Legal Link achieving 40% case flow improvement through microservices architecture, optimized data pipelines, and automated workflow triggers
- Led development of mortgage industry automation tools processing unprecedented data volumes for clients including Nvestor Funding, United Legacy, and Barrett Financial
- Designed GDPR-compliant systems with end-to-end encryption (AES-256-GCM), role-based access control (RBAC), multi-factor authentication, and comprehensive audit trails for sensitive data
- Built AI-powered solutions integrating OpenAI GPT-4 for intelligent case triage and ElevenLabs for voice interfaces, enabling trauma-informed user experiences
- Collaborate directly with C-suite stakeholders to translate complex business requirements into scalable technical solutions across concurrent client engagements

ENXSYS – LAHORE – ONSITE   March 2024 – January 2026
  SOFTWARE ENGINEER

- Led full stack development of a transport logistics platform for a U.S. school bus system, designing scalable backend services to manage routing, driver operations, scheduling, and payroll workflows.
- Designed a type-safe backend architecture using Express, Zod validation, Prisma ORM, and PostgreSQL to power APIs for routes, stops, drivers, schedules, and operational assignments.
- Integrated Google Maps, Directions, and geolocation services to enable real time route mapping, live bus tracking, and dispatch coordination.
- Developed a dynamic scheduling engine with conflict resolution and automated payroll calculations based on route metrics, assignments, and time logs.
- Implemented automated multi sheet Excel and CSV ingestion pipelines for large scale route and stop data updates.
- Containerized services with Docker and implemented CI/CD pipelines via GitLab, deploying production services on GCP.

EKKEL AI – LAHORE – HYBRID   July 2023 – March 2024
 SOFTWARE ENGINEER
- Led backend development for LOX Network, a blockchain integrated lost and found platform enabling wallet-based identity, device recovery workflows, and secure user communication.
- Built modular Node.js and Express backend services with MongoDB supporting wallet authentication, RBAC, KYC onboarding flows, and decentralized transaction monitoring.
- Implemented real time messaging infrastructure using WebSockets and Socket.IO, with push notifications via Firebase Cloud Messaging.
- Integrated smart contracts and Web3 flows for wallet scanning, decentralized interactions, and on chain and off chain synchronization.
- Developed MetaVox, an AI driven audio redaction platform using Python, Whisper and AssemblyAI transcription pipelines to detect and redact sensitive audio segments.
- Delivered full stack MERN integrations while enforcing secure API design, automated testing (Jest, Pactum, Supertest), and CI/CD practices.

LOGICERA – MICROSOFT CLOUD PARTNER – UAE –REMOTE   June 2022 – August 2023
ASSOCIATE IT CONSULTANT
- Developed Oracle Forms and Reports to digitize business processes and workflows for clients.
- Cloned, consolidated, and upgraded development and production databases using Oracle tools.
- Performed diagnostics on and troubleshooting of performance issues in Oracle databases.
- Assisted in installation, configuration and maintenance of Oracle EBS suite and Oracle Database.
- Applied security patches, hot fixes and upgrades to Oracle solutions ensuring compliance.
- Documented Oracle environments, systems, processes through manuals, wikis and flowcharts.
- Conducted user acceptance testing (UAT) on new applications and addressed bugs/issues.

EDUCATION

TECHNOLOGICAL UNIVERSITY DUBLIN   Dublin, Ireland
MSc in Computing in Human Centered Artificial Intelligence   January 2026 – Expected 2027

THE UNIVERSITY OF LAHORE   Lahore, Pakistan
Bachelor of Computer Science   Fall 18 – Spring 22

Final Year Project:
SOCCER VIDEO ANALYTICS & COMMENTARY GENERATION
Artificial Intelligence and Machine Learning based Web Application
- Analyzes soccer video footage using computer vision and deep learning models
- Detects key events like goals, fouls, corner kicks etc.
- Generates live textual commentary in multiple languages based on detected events
- Uses Python, Keras, TensorFlow, PyCharm for implementation

EXTRACURRICULAR & VOLUNTEER EXPERIENCE

PRESIDENT ROBOTICS SOCIETY   July 2019 – March 2021
- Elected President to lead university robotics society with 100+ student members.
- Managed 15-member executive team overseeing finance, marketing, events, and competitions.
- Organized workshops, hackathons, and demo days to promote robotics education.

GENERAL SECRETARY & TREASURER SPORTS SOCIETY   June 2019 – January 2021
- Elected General Secretary and Treasurer to manage operations and finances of university sports society.
- Established sponsorships with 5 industry partners securing 1 million+ in events funding.
- Handled venue booking, vendor coordination and logistics for all society hosted tournaments

VOLUNTEER MEGA EVENT OLYMPIAD   September 2020
- Supported organizing committee in planning and logistics for 20+ simultaneous sports tournaments.
- Managed scores, standings and awards ceremonies for winning teams/individuals.
- Provided on-ground support to participants and addressed concerns as needed.

CERTIFICATIONS & ACHIEVEMENTS
- AWS & Typescript Masterclass -CDK V2, Serverless, React [Udemy]   October 2023
- AWS AppSync & Amplify with React& GraphQL - Complete Guide [Udemy]   October 2023

 Winner – Internal Problem Solving & Speed Programming Competition   June 2025
- Secured 1st place in ENXSYS's internal engineering competition focused on algorithmic thinking and efficient code delivery.
- Tackled real-world backend challenges under time pressure using Node.js and TypeScript.
- Outperformed peers in code clarity, speed, and memory optimization across multiple rounds.
- Recognized by senior leadership for technical depth and rapid problem-solving capabilities.