KHAWAJA FASHI UD DIN ABDULLAH

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PROFESSIONAL SUMMARY

Backend Developer (Node.js, Python, PostgreSQL) with a cybersecurity foundation — shipped JWT/RBAC auth, cut API latency by 73%, and built a real-time ML threat-detection pipeline at sub-300ms. Skilled in REST API development, database integration, and building secure, scalable server-side applications.

WORK EXPERIENCE

Backend Developer (Node.js) *Mar 2026 - Present*

QUEM SYSTEMS INTERNATIONAL

- Developed and maintained server-side applications in Node.js (Express), implementing a 4-tier RBAC auth system (HS256 JWT) protecting 113 API routes across user, brand, admin, and subscription tiers.
- Created and managed RESTful APIs including a per-giveaway analytics endpoint serving time-series entry data, step completion rankings, and top-10 referrer breakdowns — all computed server-side.
- Worked with databases (PostgreSQL/MongoDB) by parallelizing 17 queries using `Promise.all`, serving subscription metrics, social auth counts across 7 platforms, and giveaway totals without sequential blocking.
- Integrated frontend with backend via an Axios interceptor that refreshes expired JWTs on 401, queues in-flight requests, replays them on success, and dispatches a Redux logout on failure.
- Optimized API performance and security, achieving a 73% reduction in latency through query optimization and enforcing secure API design across all routes.

PROJECTS

IoT Rogue Traffic Detection Simulator *Nov 2025*

Python, Node.js, MQTT, Scikit-learn, Streamlit

- Built an end-to-end MQTT ingestion pipeline in Python and Node.js processing live packet metadata from 20+ simulated IoT devices for real-time traffic analysis.
- Optimized the ML inference pipeline with feature pre-computation and in-memory caching, delivering real-time threat classification at under 300ms end-to-end latency.
- Trained a Random Forest classifier on 350,000+ labeled records (IoT-23 dataset), achieving 95%+ accuracy for rogue device patterns including port-scanning and abnormal beacon frequency.
- Cut mean detection-to-alert time from 5+ minutes to under 15 seconds via a Streamlit dashboard with live device health scores and instant threshold-breach alerts.

SKILLS

Backend:	Node.js (Express), Python, REST API Development, PostgreSQL, MongoDB, MySQL
Backend Security:	JWT Authentication, Role-Based Access Control (RBAC), Secure API Design
Web (Supporting):	Next.js, React, Tailwind CSS, HTML/CSS
Tools:	Docker, Git, Postman, Prisma ORM

EDUCATION

Bachelor of Cybersecurity 2023 – 2027 (Expected)

FAST National University of Computer and Emerging Sciences (NUCES), Islamabad

Relevant Coursework: Operating Systems, Database Systems, Computer Networks, Design and Analysis of Algorithms, Web Programming, Secure Software Design.