

Suham Iqbal Khan

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EDUCATION

Capital University of Science and Technology (CUST) — Islamabad, Pakistan

Sep 2022 – Jul 2026

Bachelor of Science in Computer Science (BSCS) | Graduated

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Operating Systems, Computer Networks, Artificial Intelligence, Web Development, Cloud Computing.

PROFESSIONAL SUMMARY

Performance-driven **Full-Stack Software Engineer** with extensive hands-on experience engineering scalable web and mobile software utilizing **React, React Native, Node.js, Express.js, Python, and MongoDB**. Proven capability designing high-throughput REST APIs, WebSocket streaming pipelines, JWT-based Role-Based Access Control (RBAC), and containerized microservice architectures with Docker. Steered cross-functional Agile workflows to complete a production CRM platform within a 20-day timeline and deployed residential mobile infrastructure serving **100+ active users** with **99.9% availability**.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, C++, SQL, HTML5, CSS3

Frontend Engineering: React.js, React Native, Next.js, Redux, Tailwind CSS, Responsive Design, Reusable Component Architecture

Backend & Services: Node.js, Express.js, RESTful API Design, Microservices Architecture, WebSocket, JWT Authentication, RBAC

Databases & Storage: MongoDB (Aggregation Pipelines, Indexing), PostgreSQL, SQLite, Redis (Pub/Sub & Caching)

DevOps & Automation: Docker, Git, GitHub, Postman, CI/CD Pipelines, Linux/Unix Environments, Google Maps API, n8n Automation

Methodologies & Core: Agile/Scrum, System Design, Object-Oriented Programming (OOP), Data Structures & Algorithms, Latency Optimization

WORK EXPERIENCE

Izoc Solutions (Pvt) Ltd. — Full-Stack Development Intern

Jul 2025 – Sep 2025

Islamabad, Pakistan

- Constructed responsive analytical dashboards featuring interactive data visualization and CRUD operations via **React and Node.js**, boosting client workflow completion rates by **30%**.
- Implemented enterprise-grade **JWT authentication and RBAC** across 20+ API endpoints, eliminating privilege escalation vulnerabilities and maintaining **zero security breaches**.
- Formulated a standardized UI component library integrated across 5+ client modules, reducing frontend code redundancy by **40%** and accelerating team sprint velocity.
- Spearheaded end-to-end delivery of an enterprise CRM platform from specifications through staging in a **20-day Agile cycle**, meeting 100% of milestone deliverables.

FEATURED PROJECTS

UrbanEase – Smart Society & Community Management App 🐙 [GitHub](#)

React Native, Node.js, Express, MongoDB, JWT

- Engineered a cross-platform **React Native** application deployed to **100+ active residents**, automating digital maintenance billing and emergency complaint workflows.
- Integrated JazzCash payment processing, Google Maps geolocation, and real-time database synchronizations, reducing resolution turnaround times by **40%**.
- Built multi-role administrative dashboards for residents, facility staff, and administrators, maintaining strict data isolation and zero cross-tenant access.

Omnia – Autonomous AI Automation Assistant 🐙 [GitHub](#)

Node.js, Express, WebSocket, Docker, n8n

- Developed an AI-driven task automation engine in Express.js executing headless browser workflows, real-time data parsing, and multi-step pipeline actions.
- Configured bidirectional **WebSocket pipelines** and n8n webhook integrations, enabling event-triggered task scheduling across 3+ external services.
- Containerized the microservice architecture using **Docker and Docker Compose**, achieving reproducible zero-drift deployment across production environments.

AI Pose Tracker (MotionSense) 🐙 [GitHub](#)

Python, OpenCV, MediaPipe, NumPy

- Implemented a high-throughput computer vision pipeline in Python tracking 33 skeletal landmarks in real-time with sub-25ms inference latency.
- Optimized matrix transformations and video stream buffer queues, sustaining stable 30+ FPS processing on consumer hardware.

CERTIFICATIONS

IBM Full Stack Software Developer Specialization — Coursera

May 2026 – Oct 2026

Full-stack web architecture, React, Node.js, Express, Python, Django, Microservices, Serverless, Docker containers, CI/CD pipelines, SQL databases.

Microservices and Serverless Application Development — IBM

Sep 2026 – Oct 2026

Microservices design patterns, IBM Code Engine, serverless functions, OpenWhisk, container orchestration, REST API routing, event-driven architecture.

Reliability, Cloud Computing and Machine Learning — Johns Hopkins University

Aug 2026

Site reliability engineering (SRE), fault tolerance, distributed systems reliability, cloud infrastructure scalability, automated ML monitoring.

Python for Data Science, AI & Development — IBM

Oct 2026

Data structures, Python OOP, RESTful API data scraping, Pandas, NumPy, asynchronous web data pipelines, automated scripting.

ACHIEVEMENTS & LEADERSHIP

- National Skills Competency Test (NSCT):** Ranked in the **74th percentile nationally** among thousands of candidate software engineers across Pakistan.
- NUML Nexus FYP Showcase:** Presented **UrbanEase** at NUML University's Nexus Event, demonstrating a fully deployed multi-role software product to 10+ industry evaluators.
- Web3 Blockchain Architecture:** Engineered an Ethereum smart contract prototype, applying decentralized consensus and Web3 architecture beyond curriculum boundaries.