

Junaid Khan

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EDUCATION & CERTIFICATIONS

University of Toronto

Toronto, ON

B.Sc. Computer Science & Statistics

Sept. 2020 – Apr. 2025

- Relevant Courses: Web Development, Software Engineering, Algorithm Design, Databases, Information Security

AWS Certified Cloud Practitioner

2024

Amazon Web Services

- Cloud architecture, AWS services (EC2, S3, RDS, Lambda, ECS, Amplify), security, pricing, and infrastructure fundamentals

EXPERIENCE

Software Engineer

June 2025 – Present

ICUBE UTM Startup Incubator

Mississauga, ON

- Architected and delivered full-stack features using **React**, **Next.js**, **TypeScript**, and **Python**, supporting complex program workflows across large user cohorts.
- Designed and built **RESTful APIs** backed by **PostgreSQL**, implementing optimized data models to support multi-step workflows at scale.
- Built internal operational dashboards improving real-time visibility and reducing manual overhead across program administration.
- Led technical architecture discussions with product and design, proposing scalable infrastructure solutions aligned with rapid growth requirements.

Full Stack Developer

Aug. 2023 – July 2024

Sistema Akubica

Toronto, ON

- Delivered full-stack features using **React**, **Node.js**, and **Python**, building scalable **RESTful APIs** and responsive UIs for high-throughput workflows.
- Replaced Auth0 with a custom **JWT** authentication system, improving security control and eliminating third-party overhead.
- Deployed and managed cloud infrastructure on **AWS (EC2, S3, Lambda, RDS, ECS)**, contributing to monitoring, incident response, and performance tuning.
- Collaborated cross-functionally with product and design in an agile environment to deliver high-quality features on tight timelines.

PROJECTS

SQParts — Production Full Stack Platform | *Next.js, React, TypeScript, PostgreSQL*

2025

- Built and deployed a production-grade platform using **Next.js** with **SSR** and **TypeScript**, delivering a performant, SEO-optimized user-facing experience.
- Designed scalable **PostgreSQL** data models supporting complex search, filtering, and transactional workflows with optimized query performance.
- Implemented secure authentication, persistent multi-step state management, and automated record generation ensuring reliable and auditable data pipelines.

Distributed Collaborative Text Editor | *TypeScript, Node.js, Cassandra, Distributed System*

2026

- Built a distributed real-time collaborative text editor in TypeScript using a YATA-inspired CRDT model for concurrent multi-user editing with eventual consistency and no centralized coordination.
- Designed an append-only operation log for edit events (insertions, deletions, structural changes), persisted in Cassandra for horizontal scalability and high write throughput.
- Implemented a deterministic merge engine that replays distributed operation logs into a consistent document state while preserving causal ordering across replicas.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, PHP, SQL (PostgreSQL), Java, C/C++

Frameworks: React, Next.js, Node.js, FastAPI, Django, Flask, Laravel

Cloud & Infrastructure: AWS (EC2, S3, Lambda, RDS, ECS, Amplify), REST APIs, SSR, CI/CD

Tools: Git, Docker, Postman, Jest, Playwright, pandas, NumPy, TensorFlow