

Muhammad Huzaifa Khan

Software Engineer

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Experience

Devntech

2025-03 - Present

Software Engineer

User Activity Tracking Platform (*internal product, live in production*)

- Leading development of an employee activity tracking product, now used internally across the organization, with features including keystroke logging and activity monitoring.
- Built the original cross-platform desktop app in Electron, then led its full migration to **Tauri with Rust**, improving performance, reducing app size and memory usage, and strengthening security.
- Designed the product's cloud infrastructure with a security-first network: database and Redis on a private machine with no public IP, reachable from the backend only through a **NAT gateway**.
- Set up **self-hosted Linux CI/CD runners**, reducing pipeline costs while keeping builds fast and reliable.

Secure Virtual Workstation Platform (*client project*)

- Architected the platform on AWS, fully defined in **Terraform**, with Google Workspace as the identity provider through **IAM Identity Center (SAML 2.0 SSO + SCIM)**.
- Built **Lambda-based provisioning**: creating a user in Google Workspace automatically launched a dedicated **Amazon WorkSpaces** machine with a role-based profile (browser-only kiosk for support, preloaded tooling for developers).
- Enforced data loss prevention controls: blocked two-way clipboard transfer, disabled USB and external devices, and restricted website access.
- Configured **CloudTrail and S3** for centralized audit logging.

Leadership & Engineering Practices

- Supervised a cross-functional team of developers, ensuring timely delivery of milestones and high code quality.
- Mentored junior developers through code reviews, technical guidance, and hands-on training.
- Built custom **Claude AI agents** to speed up development and automate code review across team pull requests.
- Developed an in-house **HRMS Discord bot** for leave and work-from-home management.

Devline Solutions

2023-10 - 2025-03

Fullstack Developer

- Led development of a platform for managing modded game servers using SvelteKit, Supabase, and Vercel.
- Migrated the platform to a more scalable stack (SvelteKit, Express, AWS RDS), improving performance and reliability.
- Designed the database schema and built REST APIs connecting frontend and backend.
- Contributed to an e-commerce platform and a desktop application, focusing on authentication and AWS integration.

Experience

NexusBerry Solutions

2023-04 - 2023-09

React Developer

- Translated UI/UX designs into responsive, interactive React interfaces with cross-browser compatibility.
- Implemented state management and routing using Redux, Context API, and React Router.
- Collaborated with backend developers to integrate frontend with server-side APIs.

Education

Comsats University Islamabad

BSCS • 3.12

2018-09 - 2022-07

Projects

AmnisLive

Live-streaming social app built with Flutter, [Agora.io](#), and Express, supporting follower feeds and private streams for selected audiences.

Skills

Languages

TypeScript, JavaScript, Rust, SQL

Frontend & Desktop

React, Next.js, SvelteKit, Tauri, Electron

Backend

Node.js, Nest.js, Express, REST APIs

Databases

PostgreSQL, MySQL, MongoDB, Redis, Supabase

Cloud & DevOps

AWS (WorkSpaces | Lambda | IAM Identity Center | CloudTrail | S3 | RDS), Terraform, CI/CD, Linux

Other

Git, SAML 2.0, SCIM, AI agents (Claude)