

# Zohaib Ahmad Khan

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## Experience

**Software Development Engineer**, Freedom – Los Angeles, USA January 2023 – February 2025

- Improved backend performance for an internal client tool by profiling slow **Express.js** APIs and implementing **Redis caching**, reducing average API response time by **45%**.
- Designed and implemented a real-time in-app **notification system** using **Socket.IO (Node.js)** and **Vue.js**, increasing user interaction by **20%** through instant feedback on key events.
- Optimized front-end performance by implementing **lazy loading**, **image compression**, and **background image preloading**, resulting in a **40% decrease in initial page load times**.
- Refactored and normalized a **MySQL database schema**, eliminating redundant data and improving query speed, which led to a **35% reduction in data redundancy** and more maintainable structure.
- Integrated cross-app image synchronization with fallback handling and privacy controls, ensuring a consistent and secure user experience across platforms.
- Streamlined developer onboarding by creating a **setup guide** and a **Bash script** to automate environment configuration, reducing onboarding time by **over 50%**.
- Managed the **staging environment**, ensuring smooth deployment and testing of new features before release.

**Junior Web developer**, Plotano – Lahore, PK May 2022 – January 2023

- Built a real-time, online multiplayer game (**Wordfall**) from scratch using **HTML**, **CSS**, **JavaScript**, **Pixi.js**, and **Socket.IO** for real-time communication.
- Developed game mechanics including word typing, score multipliers, life system, and a live leaderboard tracking top player stats.
- Solved real-time synchronization issues and race conditions by refactoring backend logic to ensure accurate scoring across simultaneous user actions.
- Improved UX by designing a **dynamic loading screen** that cached assets efficiently and provided visual feedback during startup.

## Projects

**Sharemint** share-mint.vercel.app

- Developed Sharemint, a secure image-sharing web app, using **Next.js**, **Drizzle** and **Neon** for database management, and **Shadcn** for UI components, while styling the interface with **Tailwind CSS**.
- Allowing users to upload and share images with features like **download limits** and **time-based access restrictions** for enhanced user control.
- Implemented **password protection** functionality, granting a **JWT token** upon successful authentication, stored securely in an **HTTPS cookie**, and valid for a short duration to enhance **security**.

## Education

**Virtual University of Pakistan** – Bachelors in Computer science 2021-2025

**Punjab group of colleges**– FSC in Pre-engineering 2021-2021

**School** – Matriculation in Science 2017-2019

## Skills

**Languages/Frameworks:** JavaScript, TypeScript, React JS, Next.js, Vue.js, Node.js, Nest JS, MySQL, MongoDB, Knex JS, Prisma ORM, Drizzle ORM

**Tools/Technologies:** Git, GitHub, VS Code, Docker, AWS, Linux, Slack, YouTrack, Trello