

Mohammad Zain Sarfraz

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FULL-STACK DEVELOPER

Versatile full-stack developer with a strong foundation in both frontend and backend technologies. Experienced in designing and building scalable web applications with React, TypeScript, and NestJS. Strong database skills and experience deploying full-stack applications using modern cloud platforms. Certified in AWS and cybersecurity.

SKILLS & CERTIFICATIONS

Front End: HTML, CSS, JavaScript, TypeScript, React, Next.js, Angular, Tailwind, Bootstrap
Back End: Node.js, NestJS, Express, Java, Spring Boot, C#, .NET, Python
Databases: PostgreSQL, Neon DB, MySQL, MongoDB
DevOps: AWS, Vercel, Railway, Docker, Git, GitHub, CI/CD
Tools: Prisma, Zod, NextAuth.js, Passport, JIRA

Certifications:

- Google IT Automation with Python | Google | 2025
- AWS Certified Solutions Architect - Associate | Amazon | 2024
- Certified In Cybersecurity (CC) | ISC2 | 2024
- Introduction to Git | Hyperskill | 2024
- Responsive Web Design | freeCodeCamp | 2023

EXPERIENCE

Front End Developer | Caremada Remote | September 2022 - April 2023

- Developed Angular-based pages for chat, calendar, and service search, with robust filtering.
- Built and integrated backend endpoints using TypeScript and SQL to power frontend functionality.
- Extended database schema and designed queries to support new features.

Full-Stack Developer | FirePools Remote | July 2023 - September 2023

- Developed financial onboarding web application using Razor Pages, HTML, CSS, Bootstrap, and AJAX.
- Built backend using Entity Framework, .NET MVC pattern, and Repository pattern.
- Implemented MySQL database integration and custom authentication/validation mechanisms.

PROJECT EXPERIENCE

[TicketZ Cinema](#) | Frontend: React, Next.js, Tailwind | Backend: NestJS, Prisma, PostgreSQL

- Built full-featured ticket booking platform with searchable movie/showtime listings and seat selection.
- Designed reusable UI components and modals for seamless booking flow.
- Implemented backend API with JWT authentication, route protection, and repository pattern.

[Acme Financial Dashboard](#) | Full-Stack: Next.js, React, Tailwind, PostgreSQL, NextAuth.js

- Built responsive dashboard with login flow, navigation sidebar, financial stats, and invoice/customer management.
- Backend used Neon DB with NextAuth.js, React server actions, and Zod validation.
- Implemented backend API with JWT authentication, route protection, and repository pattern.

[Resume Creator](#) | Frontend: Vite, React

- A SPA where users can enter their information and generate a resume which they can download as a PDF.

EDUCATION

[Diploma in Computer Engineering Technology](#) | Algonquin College | Ottawa, Ontario, Canada

- GPA: 3.89
 - Dean's List every semester
 - Graduated with honors
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ACADEMIC PROJECTS

Library Web Application | C#, .NET, Azure

- Developed a .NET MVC web application where users can browse a library's inventory and request book rentals.
- Implemented advanced search functionality (by title, author, genre, date, language, and ISBN) with Azure SQL as the cloud-hosted backend.
- Demonstrated use of data structures, OOP, sorting/searching algorithms, SQL queries, and .NET scaffolding for frontend generation.

University Record System | Java, PostgreSQL

- Built a Java-based academic records system with PostgreSQL to manage students, teachers, courses, and grades.
- Enabled course enrollment, grade entry by teachers, and automatic GPA calculation for students.
- Applied data structures, OOP principles, search algorithms, and JDBC for data access and manipulation.

Security Door Keycard System | C, QNX

- Developed a C program on QNX Neutrino OS to simulate a secure keycard access system.
- Implemented card swipe verification, interrupt-driven door control, and alert handling for invalid access.
- Demonstrated knowledge of multithreading, inter-process communication, and embedded systems programming.