ZAIN ZUBAIR

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SKILLS SUMMARY

Languages: Python, Java, C#, C/C++, Bash, JavaScript, TypeScript, HTML, CSS
Libraries/Frameworks: React, Next.js, Tailwind CSS, Entity Framework, ASP.Net, MVC, JavaFX, Nextra
Developer Tools: Git, GitHub, Docker, Linux, Vercel, VS Code, Visual Studio, PyCharm, IntelliJ IDEA
Databases: MySQL, Microsoft SQL Server, PostgreSQL, MongoDB, PlanetScale

WORK EXPERIENCE

Full Stack Software Engineering Intern — May 2023 – Sept. 2023
ZAM Global Solutions — *Toronto, ON*
- Developed a full stack web application using React and Next.js with a focus on API design and optimization, resulting in enhanced scalability and customer experience.
- Successfully optimized SQL queries and refined database schema, resulting in a 99.975% reduction in the number of rows read and enhancing API system efficiency.
- Leveraged Next.js to construct a hybrid SSR and client-side rendering solution, resulting in 80% improved page load times and web application performance by shipping significantly less JavaScript and HTML to the client.
- Managed projects' GitHub repository, organizing issues and pull requests to increase developer productivity. Employed Git for seamless source code version control, resulting in a maintainable and organized code base.

Computer Science Tutor — Sep. 2022 – Present
Freelance — *Toronto/Ottawa, ON*
- Tutored various Computer Science courses including data structures, programming, and mathematics. Designed personalized learning plans for individual students resulting in increased letter grades and comprehension.
- Achieved a high retention rate, with over 70% of prior students returning for tutoring in future courses.
- Facilitated learning for diverse student groups, fostering an inclusive and supportive academic environment.

SELECTED PROJECTS

ComputerOrg | *React, Next.js, TypeScript, HTML, Tailwind CSS, Git, Vercel* — Oct. 2023 – Present
- Developed an open-source web application for Toronto Metropolitan University's Computer Science students, optimizing the back-end infrastructure with TypeScript and Node.js for enhanced performance and scalability.
- Organized and led team of professors and students, collaborating and communicating effectively to ensure 100% alignment with user requirements.
- Designed a sleek, responsive mobile-first UI with Tailwind CSS, ensuring increased usability and user satisfaction.

Projectly | *React, Next.js, TypeScript, PostgreSQL, Git, Railway, Vercel* — July 2023
- Designed and developed a full stack project management app using React, Next.js, and PostgreSQL, creating a seamless customer experience through intuitive frontend design and secure backend API.
- Utilized JSON Web Tokens for authentication and authorization, ensuring secure user access and data protection.

Address Management System | *Microsoft SQL Server, C#, ASP.Net, MVC, Entity Framework* — June 2023
- Collaborated within a team to spearhead the development of a cutting-edge web application. Demonstrated effective communication and problem-solving skills, fostering a proactive and solution-driven team environment.
- Engineered SQL Server database, implemented responsive user interface with Razor View, and designed backend controller methods in C#. Enhanced app efficiency through streamlined queries and client-side validation.

BattleSnake | *Python, JavaScript, GitHub* — March 2023
- Led a team of developers in a highly competitive university wide tournament and organized successful development process of planning, implementation, testing, and improving, resulting in being one of the few grand prize winners.
- Successfully designed Python backend server resulting in optimized player output that outperformed competitors.

EDUCATION

Toronto Metropolitan University — Sep. 2023 – May 2026
Bachelor of Science in Computer Science, Honours — *Toronto, ON*

Carleton University — Sep. 2022 – May 2023
Bachelor of Computer Science, Honours, Machine Learning and Artificial Intelligence — *Ottawa, ON*
- Perfect 4.0 GPA in all programming courses, Deans' Honour List.