

Xining Schmidt-Chen

Full-stack web application developer

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Work Experience

Application Developer · **Tandem Studios** Nov 2024 – Present

Junior Application Developer Oct 2023 – Nov 2024

- Led modernization of a 25-year-old legacy system by redesigning data architecture, migrating decades of data, and implementing role-based access controls, establishing secure, auditable user management.
- Designed and built RESTful APIs in ASP.NET and re-architected legacy MVC applications into API-driven systems, improving backend scalability, maintainability, and flexibility for client-specific solutions.
- Rapidly became productive within a 5+ year-old ERP platform, delivering new features and enhancements across a mature codebase. Later re-engaged by name to independently design and implement a payment-tracking feature for a critical stakeholder rollout under tight deadlines, including introducing a more scalable database architecture than originally proposed.
- Deploying and maintaining cloud applications on Microsoft Azure, and upgrading .NET and Angular frameworks to current stable versions.

Graduate Research Assistant · **University of Calgary** Oct 2021 – Dec 2024

- Developed Python-based data processing pipelines for neuroimaging research, applying statistical methods, network analysis, and scientific computing (NumPy, SciPy) to analyze and visualize experimental datasets.
- Independently led the creation of a GitHub-based research codebase from scratch for a newly established lab, enabling reproducible neuroimaging analysis workflows and standardizing codebases across student projects.
- Collaborated with researchers from non-computer science backgrounds to translate experimental requirements into computational workflows and ensure correct implementation of neuroscience analysis methods.

Operating Systems TA · **University of Calgary** Sep 2020 – Apr 2023

- Taught data structures and time complexity to improve time and memory efficiency.
- Wrote and debugged multi-threaded C++ code for optimizing program runtime.

Developer Internship · **Dynamik** Jun 2022 – Sep 2022

- Collaborated with interns at Dynamik to design and build an end-to-end supply chain optimization solution, reducing manual operational overhead through system automation.
- Rapidly learned .NET 6 and applied relational database design principles to develop backend services, including REST APIs and data pipelines with web scraping and external data preprocessing.

Data Modeling Co-op · **Suncor Energy** May 2018 – Aug 2019

- Designed and implemented data marts and data models to support business operations, integrating sensor and external data sources to enhance pipeline monitoring and inventory management systems.
- Translated business requirements into interactive Power BI dashboards, enabling data-driven decision-making across multiple management levels.

Skills

Programming Languages

C#, JavaScript, TypeScript, HTML, CSS, SQL, Python

Libraries & Frameworks

ASP.NET, EF Core, Angular, Angular Material UI, jQuery, Razor Pages, Telerik Kendo UI

Tools & Platforms

Git, GitHub, Azure, SSMS 21, Azure Data Factory, Visual Studio, Visual Studio Code, Figma, Postman

Education

University of Calgary

M.S. Computer Science
2020 – 2024

B.S. Computer Science
2013 – 2020

B.S. Physics (Honors)
2013 – 2020