

Nolan Zurek

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Education

University of Alberta - BSc in Computing Science (Honours), Mathematics Minor (3.7 GPA)	2023-2026
• Relevant coursework: Algorithms I and II, Operating Systems, Machine Learning	
• Achieved Dean's Honour Roll standing	2023-2024
• Elected VP Internal/External of UAlberta Mathematical Sciences Society	2024-2025
• Transferred from the University of Waterloo - Computer Science (Co-op) program with 3.7 GPA	2021-2023

Experience

Sustainability Student - EPCOR Utilities	Jan-Aug 2024
• Built a fully cloud-based and real-time dashboard to present key insights to stakeholders	
• Designed and implemented a data pipeline using Microsoft Forms, Excel, DAX queries, and PowerBI to process data efficiently while providing a user-friendly data entry system, ensuring transparent data manipulation, and complying to the security constraints of each data owner	
• Increased efficiency by writing Python scripts to automate the generation of DAX queries	
Technical Lead - University of Alberta Innovation Fund	Sep-May 2023-24
• Collaborated with key stakeholders to assess and meet the fund's evolving needs by researching and recommending tools, developing applications, and building a skilled technical team	
• Implemented an effective project management system using GitHub Repositories and Projects that streamlined collaboration and documentation and ensured ongoing flexibility and scalability	
• Oversaw the development of a frontend web application using React, Node, and Express	
Web Developer - University of Alberta Innovation Fund	May-Aug 2023
• Coordinated with executives, internal and external teams to set up a web portal and landing page	
• Improved productivity of internal team by automating executive summary generation using Zapier	
• Attended multiple industry conferences to stay informed on emerging technology	
Application Developer Co-op - Kenna	Jan-Apr 2023
• Maintained a large-scale web application by implementing new features and optimizing codebase	
• Wrote new SQL procedures and queries, created API endpoints with Express, implemented business logic in JavaScript using Node, and built frontend components with React and Redux	
• Coordinated issue tracking between Development, QA, and Accounting teams with JIRA	
• Utilised Git and Bitbucket to integrate changes between local, development, and test branches	

Projects

DDCalc.net - Sveltekit, Typescript, Node, CarbonUI
• Developed an internationally adopted web application that helps trampoline athletes and coaches by aggregating competition videos and computing and visualizing technical information about skills and routines
StanIEEG - Unity, C#, Python, Tensorflow
• Built procedurally generated terrain mesh that adapts to a player's mental state using machine learning
• Achieved 2nd place at the NeurAlbertaTech NatHacks 2022 Hackathon and received funding offer

Skills

- **Programming Languages** - TypeScript/Javascript, C, C++, Python, Java, SQL, Common Lisp
- **Web Development** - HTML, CSS, React, Node, Next.js, Redux, Svelte/Sveltekit, Netlify
- **Other** - LLVM, Linux, Git, Github, Bash, LaTeX, Microsoft 365, JIRA

Accomplishments

- **7x National Trampoline Team Member** - Gymnastics Canada 2017-2024
 - Achieved 8th place at 2023 World Championships, Team Pan-American Gold Medallist, World Cup Bronze Medallist, 8x National Medallist, Alberta Male Trampoline Athlete of the Year
- **Governor General's Academic Medal** - Government of Canada 2021