

# Nathan Skoczkowski

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## EDUCATION

<b>University of Waterloo</b> <i>Candidate of BAsC. Electrical Engineering</i> • Relevant Courses: Calculus 1-3, Digital Circuits, Linear Circuits, Electricity and Magnetism, Data-structures Algorithms	Waterloo, ON 2022-Present
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## TECHNICAL SKILLS

<b>Software:</b> C++, Python, Javascript, Typescript, HTML/CSS, Java, SQL, PHP, Kendo, ReactJs, Angular JS, Angular 2+, Matlab, Tkinter, NumPy, ReactJS <b>Hardware:</b> AutoCad, Embedded Firmware Development (STM32), VHDL, Assembly <b>Tools:</b> Git, Docker, Jira, Google Cloud Platform, AWS, Azure Flask, Bitbucket, StableDiffusion, Pytorch <b>Applications:</b> Excel, Word, Office Software, Unix, Bash
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## EXPERIENCE

<b>Software Developer</b> <i>CIBC - Innovation Banking</i> • Developed a Python-based automation tool, converting a completely manual, 3-hour daily Excel task into a streamlined, efficient process. This innovation significantly enhanced operational efficiency by making the tool easily usable by non-technical team members. • Implemented user-friendly OOP and detailed documentation, ensuring seamless adoption by a 100+ member team with diverse tech backgrounds. • Employed advanced data manipulation with industry standard tools saving 1,000+ hours annually by enhancing financial reporting accuracy and efficiency. • Participated in weekly meetings to deepen lending practice insights and solicit product feedback, leading to iterative enhancements. Developed leadership in integrating technical solutions with business strategies, significantly exceeding user expectations.	January 2024 – May 2024 Toronto, ON
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<b>Software Developer Co-op</b> <i>Full Circle Transport Management System (TMS)</i> • Collaborated with the software engineering team on a client-centric application, actively contributing in daily scrums alongside senior engineers. • Optimized codebase performance by transitioning key components from AngularJS to Angular 2, enhancing overall system efficiency. • Impacted and optimized 200+ key components by enhancing site reliability leading to improved user experience and reduced load times. • Achieved a 20% performance boost and significantly enhanced user experience by leveraging JavaScript, TypeScript, HTML/CSS, Kendo, Angular, and AngularJS to optimize and refine frontend components, ensuring smoother interactions. • Maintained code integrity across 500+ files and streamlined workflow by ensuring consistent Git commits and adherence to best practices.	June - August 2021, May – September 2023 Oakville, ON
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<b>Software Developer</b> <i>Sakura Capital Inc</i> • Formulated software solutions for holding companies, utilized Python to automate financial reporting processes and data management capabilities. • Architected and executed frontend solutions leveraging JavaScript, HTML/CSS, and AngularJS to enhance user interfaces and experiences. • Partnered with fintech experts to conduct technical due diligence, reviewing key programs and websites, streamlining the company acquisitions process. • Achieved a 15% increase in operational efficiency by collaborating with 3+ operating companies to develop custom websites using AngularJS and JavaScript, enhancing process automation.	June 2022 - September 2022 Oakville, ON
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## PROJECTS

<b>SteamMarketPulse</b>   <i>HTML, CSS, JavaScript, PHP, SQL, Flask</i> • Devised a dynamic website enabling users to monitor and analyze in-game item gains from CSGO, enhancing their investment strategies. • Integrated the Steam API to fetch real-time inventory data, consistently providing users with accurate, up-to-date insights on market trends. • Developed a web interface to showcase asset prices, employing HTML for structural design, CSS for visual appeal, JavaScript for interactive elements, and SQL for dependable data handling.	August 2023 - Present
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<b>Cmdexec</b>   <i>Python, Docker, Sandboxie, Tkinter (Python)</i> • Formulated and implemented a robust Python application that empowers users to initiate and manage multiple programs via intuitive command-line inputs. • Pioneered Docker containerization, achieving a 99.9% secure execution rate for over 1,000 user-specified programs. This implementation bolstered system resilience, ensured isolated environments for each task, and provided risk-free operations, enhancing overall user trust and satisfaction. • Employed the Tkinter library to craft a user-friendly GUI tailored to the application's core functionalities. This strategic design choice enhanced accessibility, ensured intuitive and seamless user input, and significantly reduced learning curves for new users.	February 2022 - March 2023
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<b>Moisture Zone</b>   <i>CAD, C++, Git, TinkerCad</i> • Innovated an STM32-driven system that intelligently irrigates soil by detecting and responding to moisture levels, promoting sustainable farming. • Introduced a multi-tiered moisture detection algorithm using C++, enabling precise water release based on soil conditions. • Designed an intuitive LED display, offering users real-time visualization of soil moisture metrics and irrigation status. • Created functioning demos using TinkerCad, drafted the Moisture Zone by hand and made a system architecture drawing.	September 2022 - March 2023
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## EXTRACURRICULAR EXPERIENCE

<b>President</b> <i>Chess Club</i> • Coordinated annual tournaments with other schools in the Halton region with over 100 participants and 5 schools in attendance. • Established and implemented executive recruitment which increased executive members by 3 from previous years of 2 while also creating roles and opportunities for different members. Increased total club participants by 20 with prior years having dwindling numbers at around 10 people. • Created and delivered multiple presentations on chess strategy to help club members.	September 2019 - June 2022 Oakville, ON
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