TYLEN CALLANDER

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EDUCATION

Aldershot High school   **2019 - 2023**
High school Diploma | I-STEM certificate in Mathematics & Mechatronics | GPA: 97.1%   **Burlington ON**
- **Activities & Societies:** I-STEM Student Council President & Founder, I-STEM HDSB Advocate & Public Speaker, FRC Robotics Programming Team, Black Student Association, Burlington City Youth Council.

University of Guelph   **2023 - 2027**
Bachelor of Computing in Computer Science | Minor in Economics   **Guelph ON**
- **Activities & Societies:** Guelph Coding Community Treasurer, Society of Computing & Information Sciences Tech Committee, Engineering Ambition Software Developer, Guelph Cybersecurity Society Vice President, IBM Z Student Ambassador.
- **Relevant Coursework:** Calculus, Statistics, Programming, Intermediate Programming, Discrete Structures in Computing, Data Structures & Algorithms, Object Oriented Programming, Web Design & Development, Microeconomics.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C, C++, Java, HTML, CSS, R, Matlab, Cobol.
Front-End Technologies: Angular, React, Electron, NPM, Bootstrap, Node.js.
Databases: SQL, PostgreSQL, MongoDB, Mainframe.
Software Development: Git, GitHub.

PROFESSIONAL EXPERIENCE

Kontek Ecology Systems Inc   **Apr 2024 - Present**
Software Engineer   **Burlington ON**
- Developed a series of automated Python scripts that efficiently parsed Excel sheets, PDF's, and server directories to populate JSON objects with key data, improving data accuracy and streamlining error tracking across multiple systems.
- Developed a cross-platform ERP application using Electron, integrating my previously developed Python scripts with a dynamic and intuitive user interface built with JavaScript, HTML, and CSS. This enhanced efficiency by enabling more customizable script automation and a more user-friendly experience.
- Implemented a PostgreSQL based data validation system, leveraging advanced querying and database management techniques, which decreased manual data entry errors by and significantly improved the integrity of project folder management.

KD Sign Systems Inc   **Jan 2023 - Aug 2023**
Software Engineer   **Burlington ON**
- Utilized Python to devise algorithms for calculating the most efficient box dimensions, reducing material costs by 35% and improving packaging accuracy across diverse product lines.
- Designed and implemented a responsive front-end using React, Node.js, HTML, Bootstrap CSS, and JavaScript, which enhanced user interaction and accessibility, boosting user engagement with an intuitive interface for non-technical staff.