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As a dynamic software engineering student with a mechanical engineering foundation, I'm on the lookout for an 8-month Developer Co-op opportunity. My journey from gears to code is fueled by a fervor for innovative problem-solving and a relentless drive to shape powerful software solutions. Join me in crafting a future where mechanical precision meets digital ingenuity.

## Skills

- Programming Languages: Python, C#, JavaScript, Java
- Tools & Technologies: Flask, SQLAlchemy, Mongoose, JavaFX, Bootstrap, JQuery, React.js, Node.js
- Databases: SQL Server, SQLite, MySQL, MongoDB, Oracle SQL
- Version Control: Git, GitHub
- Software Development Life Cycle: Agile, Iterative methodologies, Object-Oriented Software Design
- UI/UX Design: Wireframing, responsive design
- Problem Solving: Analytical thinking, troubleshooting skills
- Cloud Platforms: MS Azure, Heroku, and Amazon AWS
- Communication: Strong verbal and written communication skills

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## Education

SEPTEMBER 2022 - PRESENT

**Software Engineering Technology Co-op-GPA: 4.37/4.5**

Centennial College, Toronto, Ontario

JANUARY 2016 - MAY 2019

**Mechanical Engineering Technology Co-op-GPA: 4.2/4.5**

Centennial College, Toronto, Ontario

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## Relevant Projects

MAY 2023 – AUGUST 2023

**Healthcare Management System Project/ Systems Analysis and Design**

- Developed healthcare management system optimizing medical processes, communication, and reporting.
- Utilized Dependency Injection for flexible user-related functionalities, adhering to design patterns.
- Designed intuitive UI/UX using Adobe XD aligned with user stories, focusing on user-centered design.
- Employed UML diagrams (Class, Use Case, Component, and Deployment) in Visual Paradigm for clear visualization and integration flexibility.
- Successfully delivered fully functional system enhancing processes and communication.

JANUARY 2023 – APRIL 2023

**Password Manager/ Web Application**

- Created Flask-based password manager with secure SQLAlchemy database interaction.
- Implemented user authentication and access control using JSON Web Tokens (JWT) for heightened security.
- Ensured data security with password hashing, salting, and HTTPS for encrypted communication.
- Followed OWASP guidelines, employed input validation and sanitization to prevent vulnerabilities.
- Managed error handling for informative user feedback, while updating dependencies and ensuring high availability on Heroku.

SEPTEMBER 2022 – DECEMBER 2022

**Bank Account Management Application/ WPF Application**

- Designed JavaFX-based UI with interactive components for seamless user experience.
- Implemented deposit and withdrawal functionalities for accurate financial transactions.
- Employed custom error handling mechanisms, using try-catch blocks for informative user messages.
- Leveraged Heroku's offering for application deployment and scaling, contributing to improved user experience and reliability.
- Developed following iterative methodologies for efficient progress and reliable results.

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**VOLUNTEERING AND WORK EXPERIENCE**

SEPTEMBER 2022 – PRESENT

**Teens Coders Mentor/Center OF Life Church**

- Mentored teenagers in coding, teaching them to create games and web applications.
- Facilitated interactive workshops, fostering a passion for technology and programming.
- Provided guidance and support to help students overcome coding challenges.
- Strengthened communication and teaching skills through hands-on mentoring.

MAY 2022 – PRESENT

**Customer Representative/ Regional Municipality of Peel**

- Provided exceptional customer service, addressing inquiries and concerns via phone and email.
- Assisted clients with a wide range of technical and non-technical issues.
- Managed and maintained customer records in a meticulous manner.
- Collaborated with the team to improve customer satisfaction and streamline processes.
- Gained valuable experience in problem-solving, communication, and client interaction.