

Alex Cameron

34 Amberwood Crescent

Ottawa, ON, K2E 7B9

613-558-4763 | alexjcameron@cmail.carleton.ca

www.linkedin.com/in/alexcameron8 | www.github.com/alexcameron8

EDUCATION

Bachelor of Engineering, Software Engineering, Co-op

September 2018-Present

Carleton University, Ottawa, ON

Fourth Year Standing, Current CGPA: 9.41/12 (B+)

Expected Graduation Date: December 2023

4/5 Co-op Work Terms Completed

Available starting May 2023 for 4 months and full time in January 2023

RELEVANT SKILLS, EXPERIENCES AND ACCOMPLISHMENTS

Technical Skills

- Experience programming with large-scale Python and VB.NET applications while contributing in design, development, and testing activities at Gastops Ltd.
- Programmed and designed several small-scale programs in Java applying different data structures while using object-oriented concepts resulting in extensive knowledge of the language.
- Deployed and documented internal Python web application using Docker and Jenkins to support CI/CD with Git integration.
- Designed and developing an IoT smart gardening mobile application using the Dart and Flutter frontend framework with an Appwrite backend server.
- Familiar writing SQL queries from database management course resulting in junior knowledge of database concepts.
- Experience using Microsoft Visual Studio, VS Code, Android Studio and IntelliJ IDEA IDE's while developing projects.

Communication Skills

- Lead design reviews and test result reviews for project stakeholders to present software implementation strategies that satisfy the given requirements.
- Improved Gastops software department processes by introducing GitHub branching strategies and implementation of a peer code review system compliant for DO-178C projects.
- Fluent in the English language in written, oral, and reading
- Studied the French language from grades K-12 achieving B1 DELF certification resulting in an intermediate level of understanding of written, oral, and reading

Applied Projects

IoT Smart Gardening and Farming System – Engineering Capstone Project

Fall 2022 – Present

- Designed and developed a mobile app front end using Dart with the Flutter SDK integrated with the Appwrite backend service that enables users to control and monitor their smart gardening and farming systems.
- Implemented features such as a plant prediction algorithm, remote watering, real-time plant health monitoring, and automatic alerts for potential issues.
- Collaborated with a team of 3 software developers to ensure that the app was intuitive, user-friendly, and compatible with a variety of IoT devices.

Applied Projects

Risk Game – Software Development Project

Fall/Winter 2020

- Built and designed a GUI application in java, based on the board game Risk, which implements several software development patterns, such as MCV, test-driven development and more.
- Worked in a team of 3 members and used git as the version control system which ensured easy issue tracking and debugging.
- Designed UML and sequence diagrams while designing and enhancing the project which ensured all team members had clear goals and ideas while developing the project.

Personal Website

Winter 2021-Present

- Developed a greater understanding of web development basics and fundamentals while programming this project in HTML and CSS to create a website.

WORK EXPERIENCE

Job Title and Company	Roles and Accomplishments	Date
Software Developer – 16-month Co-op Gastops Ottawa, ON	<ul style="list-style-type: none">• Collaborated in multidisciplinary engineering teams to develop and maintain desktop client software applications using VB.NET framework.• Implemented enhancements to an internal Python web application tool used to analyze spectral data.• Developed user login page using PHP, HTML & CSS for a company expense portal.• Created and completed testing to improve the performance and reliability of several company software applications.	May 2021- September 2022
Administrative Assistant – Housing and Residence Carleton University Ottawa, ON	<ul style="list-style-type: none">• Worked with a team to create safe COVID-19 protocols for students moving into residences.	August 2020 – September 2020
Supervisor Wading Pool Attendant City of Ottawa Ottawa, ON	<ul style="list-style-type: none">• Supervised 3-4 co-workers and patrons daily ensuring all policies were followed. When situations occurred, it required quick reaction with appropriate solutions.	June 2019 – August 2019
Lifeguard Attendant / Instructor City of Ottawa Ottawa, ON	<ul style="list-style-type: none">• Adapted teaching styles based on different ages and learning types of kids.• Had to perform first aid and deal with patrons in sudden situations.	March 2017 – May 2019

Volunteer Experience and Extracurricular Experience

Experience and Role	Accomplishments	Date
Ultimate Frisbee Player / Coach	<ul style="list-style-type: none">• Currently play on the Ottawa Outlaws, the professional ultimate team situated in Ottawa.• Captain of the Carleton Ravens men's ultimate frisbee team.	September 2015- Present