# Evan Smedley

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## Education

**Carleton University**                                                                                                    Graduated April 2024
Bachelor of Engineering in Software Engineering, Co-op, High Distinction | Link to all courses   *GPA: 11.26/12, 3.92/4*
Relevant Coursework: Applied Cryptography, Machine Learning, Operating Systems (C), Software Architecture and Design,
Algorithms and Data Structures (Python), OOP (Java)

## Experience

**Motorola Solutions**                                                                                                      Jan. 2022 - Aug 2023
*Software Engineer Intern, R & D*          *Java, Python, Bash, Angular, Git, AWS, Azure, Terraform, Docker, Kubernetes*

- Spearheaded work (as the feature lead) on a text messaging simulation feature for the validation of 911 call systems, by designing a system with a microservice architecture that can scale to handle many users efficiently.
- Communicated with a deployment team remotely to facilitate testing and deployment of a component of a 911 call system in a major city.

**Carleton University**                                                                                                     Sep. 2021 - Dec. 2021
*Teaching Assistant, Python course (ECOR1042)*                                                                             *Python*

- Attended lab sessions to answer questions and help students with course material (data types, iterative development, binary and hexadecimal number systems, digital representation of numbers and general Python syntax).

**Statistics Canada**                                                                                                       May. 2021 - Sep. 2021
*Census Labour Data Coding Officer*                                                           *Python, Microsoft Office Suite, SQL*

- Reviewed automatic classification of occupation related census responses using database management software.
- Investigated a large set of related response classification errors to identify the issue in one of the classification algorithms, and fixed it resulting in the proper reclassification of over 5000 responses.

## Projects

**Advent of Code**                                                                                                          June 2024 - Ongoing
*Working towards completing two stars on all 25 days*                                                                      *Python*

**Checkup-bot**                                                                                                             Sep. 2023 - Apr. 2024
*Web app for remote doctors appointments*                                     *Spring-Boot, React, Flask, GitHub Actions, Docker, GCP*

- Wrote a Flask API that allows control of a robotic arm through HTTP requests.
- Designed a Spring Boot API to act as a robotic arm registry with a liveness probe to monitor arm activity.
- Containerized all system components and deployed them in GCP using Continuous Integration.

**ATM**                                                                                                                     Mar. 2021 - Apr. 2021
*ATM system on Linux with concurrent processes*                                                                           *C*

- Designed and implemented a database server that processes requests from a database editor (the interface for an administrator) and any number of ATM processes (the interface for a user).
- Wrote a C library to simplify use of system calls to control semaphores, message queues and shared memory.

## Leadership

**Parks Canada Outdoors Club of Carleton**                                                                                  Apr. 2021 - Apr. 2024
*VP Finance*

- Managed finances for a club with 200+ members for three years, obtained maximum funding each year allowing more events to be run (especially overnight camping trips), and resulting in PCOCC being one of the largest clubs on campus.
- Implemented a scheduled Python script to automatically manage memberships by interacting with various Google APIs.

## Skills

**Languages:** Advanced English, intermediate French
**Technologies & Tools:**

Git, Linux, Docker, CI/CD, Kubernetes, Kafka, Grafana, Postman, AWS, Azure, GCP, Terraform, Nginx, LaTeX