

# Cameron Kroupa

Caledon, Ontario

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## SUMMARY OF QUALIFICATIONS

- Second year student enrolled in Honours Specialization in Computer Science & Major in Mathematics
- Achieved a **3.9 overall cumulative GPA**
- Strong understanding of programming languages Python, Java, and C
- Notable experience with HTML, CSS, JavaScript, NodeJS, and React
- Hands on experience with MongoDB and SQL
- Strong foundation through coursework of computer architecture and ARM Assembly
- **Western University 2024 Hackathon Prize Winner**

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## TECHNICAL SKILLS

### Programming

- Proficient in Python, Java, and C
- Strong foundation in data structures, algorithms, and object-oriented design
- Exposure to agile methodologies, unit testing, and debugging practices
- HTML, CSS, JavaScript, NodeJS, and React
- Understanding of UI principles

### Operating Systems & Environments

- Proficient with Linux/Unix, Windows, and MacOS operating systems
- Experience with Linux scripting
- Solid understanding of PC/CPU architecture
- Proficient in ARM Assembly

### Version Control & CI/CD

- Skilled with Git and GitHub for source control
- Experience with Docker for containerization

### Databases & Data Visualization

- Hands-on experience with MongoDB and SQL
- Experience using Python, Salesforce CRM, and Tableau

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## EDUCATION

### Honours Specialization in Computer Science and Major in Mathematics

2023-2028

Western University, London, Ontario

- Enrolled in Science Internship Co-op
  - Dean's Honours List for 2023-2024 academic school year
  - Excelled in computer science courses such as CS Fundamentals (100%), Unix & C (98%), and Data Structures & Algorithms (95%)
  - Successfully completed notable mathematics courses, including Linear Algebra (98%), Calculus II (93%), and Applied Logic (90%)
  - Awarded the \$8000 Western Scholarship of Excellence (to the highest 250 high school admission averages)
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## **WORK EXPERIENCE**

### **Salesforce CRM Student**

**June 2024 - Sept. 2024**

United Services Group, Brampton, Ontario

- Utilized strong attention to detail and data modelling skills to develop division overview dashboards, highlighting profitability and other metrics for managerial decision-making

### **Backend Salesforce Developer**

**June 2023 - Sept. 2023**

United Services Group, Brampton, Ontario

- Established effective data entry skills on Salesforce, created a resource to guide employees work and enabled managers to assess quality control of provided services

### **Partnership Division Payroll**

**June 2022 - Sept 2022**

United Services Group, Brampton, Ontario

- Efficiently assisted with payroll calculations for various contractors
  - Developed a recursive algorithm in Java that made payroll calculations more efficient based on user-inputted shift schedules rather than manual calculator input
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## **TECHNICAL PROJECTS**

### **LatticeTalk**

**March 2025**

Club Project, Western Cyber Society

- Real time messaging application built on post quantum encryption methods
- Designed with the future of secure communication in mind
- Researching lattice-based cryptography, a post-quantum encryption system

### **GoFundUs**

**December 2024**

Project, Western University Hackathon

- Hack Western 2024 Prize Winner
- Designed and implemented a platform utilizing StarkNet's blockchain technology to enable secure and transparent group fund management, addressing mistrust in collaborative funding systems.
- Developed a democratic decision-making process where fund withdrawals are processed only with majority fund member approval, ensuring accountability and trust in fund management.

### **Maze Graph Solver**

**November 2024**

Educational Project, Western University

- Developed a weighted graph data structure to model a maze with walls, rooms, and key-restricted corridors. Used a Depth First Search (DFS) to find the a solution in the given the maze layout and key availability.

### **West-Scrape**

**June 2024**

Personal Project

- Built a web scraper that signs into Western's Draft My service which shows all scheduling information for classes and scrapes all the data. This will be used in a future personal project to make a much better Draft My service

### **Frog Navigation Algorithm**

**March 2024**

Educational Project, Western University

- Utilized proficient Java coding language knowledge to create a movement strategy game for a frog, navigating through pond cells while avoiding alligators and hazardous mud
- The frog must reach his mate by making decisions based on cell types, including lily pads, reeds, and mud, which influence his movement and safety
- Developed a preference-based decision making system using a priority queue to determine optimal sequence of moves based on environmental factors