

Celeste Luo

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Education

University of Waterloo

Waterloo, ON

Bachelor of Computer Science • Human-Computer Interaction Specialization

Sep 2022 - Apr 2027

- **Activities:** Women in Computer Science, Cybersecurity & Privacy Institute Student, Capture the Flag
- **Courses:** Data Structures & Algorithms, Operating Systems, Object-Oriented Software Development, C/C++; 3.9 GPA

Experience

LinkedIn

Mountain View, CA

Software Engineering Intern, Security Infrastructure

May 2025 - Aug 2025

- Designed and built a **Golang SDK library** for **token infrastructure** supporting internal network HTTP & gRPC microservices, presenting my work to 30+ team members and stakeholders in a design review
- Wrote and integrated a new **end-to-end token exchange flow** into company-wide Python auth & data transfer tooling, **piloting migration** away from certificate-based auth (generated 15 million times/day)

theScore

Toronto, ON

Software Developer Co-op, Web Platform

Jan 2025 - Apr 2025

- Proposed & improved build/test **pipeline runtime by 30%** (5 minutes) through dependency caching and test parallelization

PlayStation (Sony Interactive Entertainment)

Waterloo, ON

Software Developer Intern, DevOps / Build & Tools

May 2024 - Aug 2024

- Optimized startup time from **minutes to seconds** for hundreds of CI/CD pipelines by fetching config files via the GitHub API
- **Automated firewall** configuration & deployment as a single workflow, **shortening by 6+ days** new app onboarding lead time
- Designed a config-as-code structure, Jenkins pipelines and Node.js tools to store & update firewall security policies, integrating Akamai REST APIs into a TypeScript client library with JSON schema typing and endpoint unit testing
- Built an on-demand **allowlist testing** solution with **AWS Lambda** functions and Jest, including custom certificate support

University of Waterloo David R. Cheriton School of Computer Science

Waterloo, ON

Undergraduate Research Assistant

Sep 2023 - Dec 2023

- Implemented Python SciKit random forest & other deep learning models for **network bandwidth prediction** research
- Evaluated existing systems on cellular downlink prediction to test & train models under different tree parameters

ISARA Corporation

(Remote) Waterloo, ON

Security Software Developer Co-op

May 2023 - Aug 2023

- Substantially increased data search and handling speed & capacity to **over 2 million records (+300%)** by migrating a fundamental library of the technology stack to Elasticsearch within a tight deadline

Honors & Awards

Women in Cyber Scholarship

FS-ISAC

Recipient; USD\$10 000, with year-long mentorship from Morgan Stanley Canada's CISO

2024

European Cyber Security Challenge

European Union Agency for Cybersecurity

2x 1st Place (Team Canada) in international bracket, 10th of 34 countries, *focus: digital forensics*

2023, 2024

picoCTF Cybersecurity Competition

Carnegie Mellon University

1st Place in Canada, 3rd worldwide of 7794 teams / 18000+ students, *focus: digital forensics, Linux*

2022

CyberPatriot Cybersecurity Competition

US Air Force Association

1st Place in Canada, 5th worldwide of 5254 teams / 19000+ students, *focus: Windows OS security & networking*

2021, 2022

Projects

words-api Express.js API for random words by parts of speech; open source, 30+ stars on GitHub



Dark Docs Open source Google CSS Dark theme contributor; 46 000+ installs, 1000+ installs / week



Skills

Languages Python, JavaScript, Go, TypeScript, C/C++, Java, PHP, Ruby

Tools & Technologies Node.js, React.js, Django, AWS, Docker, GraphQL, PostgreSQL, Linux