Ellen Lloyd

Mature student in a second-degree CS program seeks tech internship with a team that shares my values of **innovation**, **learning** and **excellence**.

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PERSONAL PROJECTS

Smooth Sudoku Game | *Racket ISL* | *Dec 2021 – PRESENT*

https://ellenlloyd.ca/racket-sudoku/

- Developed a pure-functional GUI application that uses backtracking search.
- Leveraged **test-driven development** to write reliable, high-quality code.

Stardew Valley Modding | *C#, Python* | *May – Dec 2020, Jan 2022 – PRESENT*

https://www.nexusmods.com/stardewvalley/users/88107803

- *Currently... refactoring and testing code for compatibility with new game updates*
- Developed **C#** mods adding UI enhancements (*Fish Preview, Show Item Quality*) and new features (*UV Index, Angry Grandpa*) to Stardew Valley game.
- Interfaced with Stardew Modding **API** and built on established frameworks.
- Interpreted CIL instructions and wrote dynamic transpilers: patched .NET methods by safely altering opcode sequences in external code.
- Used **Git** for version control and **GitHub** for collaboration.
- Contributed pull-requests to open-source mods and debugged code in Stardew Valley, reporting bugs and suggesting fixes to the game developer.
- **Led a team** of 20 creators and wrote **Python** scripts to produce a collaborative mod of text-based content edits (*Unsettling Item Descriptions*).

Quarto! | *JavaScript* | *Aug 2019*

https://ellenlloyd.ca/quarto/

- Coded a hotseat web client and responsive web page for a two-player game.

Thesis Showcase | *HTML, CSS* | *Jul – Aug 2019*

https://ellenlloyd.ca/non-listening-theory/

- Published a web summary of my thesis and new **non**-listening framework.

EDUCATION

Bachelor of Computer Science | *University of British Columbia, Canada*

Sep 2021 – May 2023 (EST.) | AVERAGE 92.3%

Accelerated program for new CS students who hold a prior degree in another field.

M.Sc. in Marketing | *University of Saskatchewan, Canada*

Dec 2019 | AVERAGE 89.4%

Thesis: Six Non-Listening Patterns in Stakeholder Networks: A Grounded Theory Model

B.Sc. in Psychology (Honours) | *University of Calgary, Canada*

Dec 2014 | GPA 3.92/4.00

PROGRAMMING SKILLS

- C#, Python, Racket, JavaScript, CSS, C++
- (learning) Java, Ruby

KEY ATTRIBUTES

Aspires to excellence, aims to impress

Embraces challenge and seeks creative solutions

Reformulates knowledge to be highly accessible

Mentors others and leads teams towards group success

Cares deeply about people, ideas, and outcomes

Commits to accuracy, honesty and open communication

AWARD HIGHLIGHTS

Canada Graduate Scholarship Master's (CGS-M) Award
2016

Saskatchewan Opportunity Scholarship
2016

LANGUAGES

English, French

WORK HIGHLIGHTS

Graduate Student Researcher, University of Saskatchewan | *Saskatoon, Canada*

Sep 2015 – Dec 2019

- Engaged technical audiences with speaking presentations of **7** original talks and research posters. Generated new theoretical models from qualitative analysis. Earned a **Canada Graduate Scholarship**—Master's Award.

Tutorial Leader, Edwards School of Business | *University of Saskatchewan, Canada*

Jan 2016 – Apr 2016

- Delivered weekly lessons for two classes of 20+ students, leading term project groups through a real-world communications analysis. Rated by 100% of students as "enthusiastic" and **"an excellent instructor."**

Full-Time Research Coordinator, Language Processing Lab | *University of Calgary, Canada*

Sep 2014 – Aug 2015

- Managed projects while quickly debugging and resolving critical errors in data collection. Cleaned and analyzed large datasets (> 300,000 entries); initiated a new volunteer program. **Coauthored two published journal articles.**

Energy Literacy Content Developer, University of Calgary | *Calgary, Canada*   energyeducation.ca

Apr 2013 – Apr 2014

- Developed original content for an educational web start-up. Implemented formatting and coding solutions in wikitext/HTML and created instructional resources to support over **50 content writers**. Wrote technical articles to be accessible and engaging for a wide audience.

VOLUNTEER HIGHLIGHTS

Founder, "Web Apps What?" Learning Hub | *Vancouver, Canada*

Jan 2022 – PRESENT

- Facilitates a learning community of 38 offering peer support for learning web dev tools and technologies.

Events Volunteer, Bachelor of Computer Science Club | *Vancouver, Canada*

Oct 2021 – PRESENT

- Operates in a team to plan and organize social and career events for students in the BCS degree program.

Community Tech Admin, Team Rocket Raids | *Saskatoon, Canada*

Jul 2017 – Mar 2019

- Designed creative UX solutions for an online community of over **2000 members**. Used domain-specific languages to implement new custom behavior. Coordinated moderation to enforce rules and guidelines.

Crisis Line Responder, Calgary Distress Centre | *Calgary, Canada*

May 2014 – Jul 2015

- Fostered strong rapport by listening with careful intent and empathy to help clients in crisis feel heard.

Business Mentor, Junior Achievement of Southern Alberta | *Calgary, Canada*

Oct 2011 – Apr 2013

- Collaborated in a team of three to guide two groups of 20-30 high school students through the process of creating, running, and liquidating a business, facilitating the success of both groups as **regional finalists**.