

Liron Katsif

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EDUCATION

University of Waterloo

September 2025 - April 2030

Bachelor of Software Engineering - Honors/Co-op, Joint Honors Computing & Optimization

GPA: 3.8/4.0

- Relevant Coursework: Object-Oriented Programming, Programming Principles, Data Structures

EXPERIENCE

Software Engineering Intern

Sep. 2025 – Present

Savi Finance

Toronto, ON

- Designed and built a neural recommendation model that predicts purchases for users by analyzing social circles.
- Engineered a user merchant embedding framework to represent spending patterns and relationships between users.
- Experimented with Neural Collaborative Filtering (NCF) and Graph Neural Network (GNN) architectures.
- Built and optimized GraphQL APIs for secure, real-time financial data and transactions.
- Developed full-stack features for the mobile app with React, integrating front-end UI with backend services.

Programming Tutor

Aug. 2023 – Aug. 2025

Self Employed

Toronto, ON

- Tutored 15 students in programming concepts including algorithms, data structures, and object-oriented design.
- Guided students through debugging techniques and best practices in languages such as Python, and C#.
- Developed personalized lesson plans to match individual learning styles and academic goals.

Mathematics Tutor

Jan. 2022 – June 2025

Self Employed

Toronto, ON

- Provided individual and group tutoring to students in grades 4–11, improving their understanding of concepts.
- Prepared students for assessments and competitions, increased average mark around 10%.
- Developed customized lesson plans and extra curriculum content to enhance learning outcomes.
- Received 30+ positive feedback from clients for clear communication and effective teaching methods.

PROJECTS

Recipe Management | C#, .NET, REST API

- Designed and developed a full-stack application for recipe and meal planning management.
- Integrated Spoonacular API to fetch thousands of recipes and ingredients, enabling users to search, sort, and save.
- Implemented features for meal planning, nutritional tracking, and custom recipe creation.

Page Position Extension | JavaScript, HTML, CSS

- Built a Chrome extension that saves and restores scroll positions on webpages to prevent losing your place.
- Designed a clean, user-friendly popup UI for naming, saving, jumping to, and deleting bookmarks.
- Implemented cross-tab functionality and persistent storage to maintain positions after reloads or browser restarts.
- Developed content scripts to track scroll positions and background scripts to handle storage and UI logic.
- Published on the Chrome Web Store

Wrestling Team Manager | C#, .NET

- Created a full-stack application to help wrestling coaches manage athlete data and performance metrics.
- Enabled coaches to input, update, and analyze wrestler statistics, improving team performance tracking.
- Successfully adopted by a high school wrestling coach for team management.

UW Flow Course Ranking | Python, Selenium, Web Scraping, OCR

- Developed a Python tool to rank courses by increasing difficulty using data from UWFlow.com.
- Enabled input via text lists or course list images through OCR integration, improving accessibility.
- Implemented OCR functionality to extract text from images, enabling users to submit photos of course lists.
- Utilized Selenium for web scraping to retrieve course difficulty ratings and instructor feedback automatically.

TECHNICAL SKILLS

Languages: Java, C, Python, C#, HTML/CSS, JS, TS

Frameworks: Pytorch, TensorFlow, RestAPI, React, GraphQL, MySQL, OCR

Developer Tools: Git, VS Code, Jira, Postman, Visual Studio, PyCharm, GitHub