

# Ethan Bender

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November 3, 2025

**Sandra Oh**

HR Specialist  
Head Office  
Magnet Forensics  
555 Great Canadian Way, Ottawa ON, L9U 3W4

**Re: Application for Magnet Forensics Software Developer**

Dear Ms. Oh,

I am writing to apply for the Software Developer position with Magnet Forensics as advertised in the COOP1100 mock postings. As a Bachelor of Computing student at the University of Guelph majoring in Computer Science with an emphasis in Cyber Security, I am excited about the opportunity to apply my technical and soft skills to contribute to your team. I'm especially motivated by Magnet Forensics' mission to support law enforcement to solving and preventing major crimes. I have experience with languages such as Java, C, and JavaScript, and am eager to use these skills to contribute to this meaningful work through software development.

In my academic and personal projects, I have applied object oriented design in Java to build applications, including a fully interactive simulation of Conway's Game of Life. I also used C to create a k-NN model implementing Euclidean, Hamming, and Jaccard metrics to classify data entries while assessing accuracy. These experiences gave me hands-on practice with algorithm design, object-oriented programming, and problem solving, all skills that align closely with the requirements listed in the Software Developer posting.

Alongside technical ability, I also have strong soft skills that I gained from work and volunteer experience. As a Jujitsu Assistant Instructor, I developed communication and leadership skills by teaching students of varying ages and skill levels. My experience as a Residential Mover improved my adaptability and teamwork while under pressure. Through these experiences, I've learned to collaborate effectively and maintain focus in dynamic environments, traits that help support success in team-based software development.

Thank you for taking the time to review my application. I am open to the opportunity to discuss how my background in technical and interpersonal skills can contribute to your team's success in an interview.

Sincerely,

**Ethan Bender**

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## Technical Skills

- **Languages:** C, Java, HTML, CSS, JavaScript, Assembly
- **Tools & Frameworks:** Git, Three.js, React, LaTeX, Java Swing/AWT, Makefile
- **Methodologies:** Test-Driven Development (TDD), Continuous Integration (CI), Object-Oriented Design (OOD)

## Projects

### Conway's 'Game of Life' with Java GUI

April - June 2024

*Java, Java Swing/AWT*

- Implemented a fully interactive simulation of Conway's Game of Life with a GUI and customizable grid colors.
- Developed event-driven controls for cell placement, cursor movement, and simulation start/stop.
- Incorporated file I/O for saving/loading patterns and implemented timers for automated cell updates.

### Graph Theory Online Editor

September 2025 - Present

*HTML, CSS, JavaScript*

- Developed an interactive online graph editor for students in Discrete Structures in Computing (1910/2910), to aid with the lack of effective programs for graph visualization.

### Portfolio Website

[ebende03.github.io/portfolio](https://ebende03.github.io/portfolio) – December 2024 - Present

*HTML, CSS, JavaScript, Three.js, GitHub Pages*

- Developed a personal site showcasing projects, hosted via GitHub Pages.
- Implemented an interactive 3D background using Three.js, with real-time animations and user-responsive effects to enhance UX.

## Work & Volunteer Experience

### Residential Mover

April - September 2025

*Evergreen Transfer*

- Adapted quickly to fast-paced, physically demanding work environment.
- Emphasized teamwork and communication skills.

### Car Detailer

April - September 2024

*John Bear New Hamburg*

- Honed attention to detail and efficiency while cleaning and restoring vehicles.
- Developed strong time management and teamwork skills while coordinating tasks with colleagues.

### Jujitsu Assistant Instructor

2019-2024

*Wilnot Jujitsu*

- Support teaching of Shinki Ryu Jujitsu techniques, forms, etiquette to lower Kyu rank students.
- Maintained up-to-date knowledge, emphasizing memorization and precise execution for teaching accurately.

## Education

### Bachelor of Computing, Computer Science (Co-op)

2024–2029 (expected)

*University of Guelph, Guelph, ON*

- Honors Role – 88% GPA – 1,000\$ Entry Level Scholarship – Emphasis in Cyber Security
- Academic Projects:
  - *Spotify Inspired Playlist Manager (C, 2025)* – Built in C with CSV parsing, dynamic linked lists, and menu-driven features for creating, playing, and managing songs.
  - *Machine Learning: k-NN Classifier (C, 2025)* – Developed a k-NN model with Euclidean, Hamming, and Jaccard metrics to classify CSV dataset entries and assess accuracy.

## Extracurriculars

- Rock Climbing (Bouldering, Route Setting)
- Music – Leader of the percussion section, won Player of the Year Grade 12 Music award
- Jujitsu - Achieved second degree black belt after 12 years of studying