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.

EASy68k Assembly Pacman   October 2025 - December 2025
EASy68k Assembly, Python

- Designed and recreated a fully functional Pacman replica inside of the EASy68k Simulator for the Motorola 68000. Implemented input polling, drawing sprites to the screen with animation, and a simple ghost AI.

Portfolio Website   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
Wilmot 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