

# Charlie Magri

+1 519 719 0769

CHARLIEMAGRI03@GMAIL.COM

ST THOMAS, ON

---

## EDUCATION

University of Guelph, Bachelor of Engineering in Computer Engineering.

---

## SKILLS

### CODING

C, C++, C#, Python, HTML, CSS, Java, JavaScript, SQL, Arduino, ARM Assembly, RISC-V Assembly, FreeRTOS, uC/OS-III, VHDL, Verilog, React.

### SOFTWARE

GitHub, Figma, Unity, Godot, Visual Paradigm, UML Paradigm, SolidWorks, AutoCAD, Google Colab, Docker, Xilinx, Vivado, Cadence, Excel.

---

## PROJECTS

**Eye tracking device:** Lightweight eye tracking solution using a Pi for external calculations with a fully custom onscreen UI. **Skills: C, Python, Pi hardware integration.**

**Path:** Mobile game passion project, endless puzzle solver **Skills: C#, Unity.**

**Daily Date Game:** Wordle style daily game **Skills: HTML, React, CSS, Python.**

**Multiplayer Chess Game:** Full-stack design of a working chess game to be played across two computers. **Skills: C, Python, HTML, Javascript, CSS, SQLite, Swig**

**Wireless Fall Detector:** Fall detector integrated with wireless integration between the device, basestation, and mobile device. **Skills: ESP32 design**

**Program Counter:** Designing a functional 8-bit PC from transistor logic. **Skills: Cadence**

**RTOS Security Camera:** motion detection with realtime video feed **Skills: FreeRTOS**

**AI training comparison:** testing training speedups of modern day training technology.

**Skills: Python, Pytorch, Google Colab.**

**Design Day runner-up:** Team project involving design and implementation of a function kids toy among all Guelph engineering students. **Skills: SolidWorks.**

---

## WORK EXPERIENCE

### METRO | GROCERY CLERK

June 2023 - April 2025 | 500 Stone Road, Guelph, ON, N1G 4Z1

Part-time grocery clerk tasked with helping customers, training new hires, organizing displays and inventory across the store. This job taught me customer service and organization.

### SOLO ON MAIN | PREP COOK

Sept. 2017 - Aug. 2022 | 187 Main St, Port Stanley, ON, N5L 1E1

Hired as a dishwasher worked my way through the kitchen, becoming a Prep Cook and working on the line. I eventually began training new dishwashers and guiding them through the job. This taught me teamwork, how to work under pressure, Time and resource management and Leadership

---

## CURRENT WORKS

### FOOD FIGHT

- Godot multiplayer game is inspired by Overcooked

### BLOCKCHAIN

- Beginner Blockchain courses, simple minting website for collectables, learning Selenium and coding for Ethereum.

---

## CERTIFICATIONS

SolidWorks Associate level Certification

### PASSION

Game Development, Designing, Pixelart, Cooking

### EXTRA

- Kenny winter Jam 2024
- Christmas Jam 2024