

# Sam Gunter

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## Languages/Tools

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- Python
- Racket
- C
- R
- Git
- SQL
- Django
- HTML/CSS
- L<sup>A</sup>T<sub>E</sub>X
- KiCAD

## Work Experience

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### Morello's Your Independent Grocer

August 2018 – August 2020

*Operations/Perpetual Inventory*

- Implemented process to track damaged and expired products across vendors, resulting in an increase of over \$200,000 of refund credits over a 2 year period
- Managed team of 6 during digital label installation
- Sole employee tasked with adjusting system order threshold to reduce overstock

### M&L Cattle Company

Summer 2019

*General Farm Labourer*

## Projects

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### HubbleTwitter Bot

[twitter.com/HubbleArchives](https://twitter.com/HubbleArchives)

- Developed Twitter bot using **Python** and the **Twitter API** to post daily space photos taken by the Hubble Telescope, with 190,000 impressions and over 2,000 likes across tweets
- Used **requests** and **BeautifulSoup** to scrape NASA Hubble images
- Created **SQLite** database with pruned image list and metadata for captions using regular expressions, allowing for consistent visually appealing and descriptive tweets

### Full-Stack-Chessboard

[github.com/2kofawsome/full-stack-chessboard](https://github.com/2kofawsome/full-stack-chessboard)

- Created physical chessboard that allows a user to play against various difficulties of the integrated Stockfish chess engine, while tracking moves to allow post-game engine analysis
- Contributed to open-source **Python** modules using **git** and **Github**, with over 50,000 user downloads
- Used a variety of hardware, such as RFID, reed switches, and LCD displays, to handle inputs/outputs and allow piece recognition on a **Raspberry Pi**
- Designed circuit schematics with **KiCAD** and soldered all components in the chessboard

### Religious Groups Distribution Site

[2kofawsome.com/HRT3M](https://2kofawsome.com/HRT3M)

- Visualized the distribution of religions around the world using **Django** and the FusionCharts **Javascript** library
- Hosted website on a **Raspberry Pi** server with a **SQLite** database to store data from <https://worldreligiondatabase.org>

## Education

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### University of Waterloo

Graduating 2025

*Candidate for Bachelor of Computer Science*

GPA: 95%

### St. Peter's Secondary School

Graduated 2020

- Governor General's Award for Highest Grade 11/12 Average
- Computer Science Award
- Overall Math Award
- David Patrick Young Physics Award
- Overall Science Award