

# Anneliese Wen

anneliesew.github.io • github.com/anneliesew • fywen@uwaterloo.ca

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## Skills

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**Languages** - C, Python, JavaScript, HTML/CSS, Scheme  
**Technologies** - React.js, Node.js, MongoDB, Mocha, Git, Jira, Pandas, Numpy  
**Other** - Figma, Excel, GIS

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## Experience

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**Geomatics Technician** - Agriculture and AgriFood Canada Jan '20 - Present

- Used numpy, rasterio, and pandas to remove interference from clouds while extracting soil moisture data from satellite images
- Reduced soil analysis script execution time by 60% by replacing usages of DBL texts to NetCDF format
- Wrote a ECV to SMOS calibration tool that performed statistical analyses on each pixel on the sensor on a dataset of hundreds of images

**Support Tools Developer** - Alert Labs May - Aug '19

- Developed systems to flag sensors and deliver automated Slack channel reports to the Sales team via Slack API for wide range of concerns
- Implemented a sensor SIM card deactivation/reactivation feature using the Particle API
- Created functionality to automatically identify sensors that were negatively affected by firmware updates
- Wrote unit tests using Mocha Chai for features

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## Education

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**Honours Planning, Joint Honours Math, Computing Minor**  
University of Waterloo, B. Environmental Studies Expected 2022

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## Projects

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**Personal Website** - anneliesew.github.io Apr '20

- Design and coded multi-page responsive website using React.js

**Tweet Like Trump** - Hack the North Sept '19

- Built interactive site modeling how your tweets may alter the S&P 500 if you were Donald Trump using Google AutoML Natural Language and Twitter API

**Constellation Fantasy** - BrickHacks Feb '19

- Used Vuzix SDKs, Unity, and Vuforia to create an augmented reality prototype to change the way consumers interact with products

*Winner of Best Constellation Brands Consumer Experience, Runner-Up Most Creative Use of Vuzix Blades AR Smart Glasses, Honourable Mention for Best Newbie Hack*

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## Community

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**Hackathon Lead** - EnergyHacks | <https://energyhacks.ca> March '19 - Present

- Leading and scaling the second iteration of Waterloo's only sustainable interdisciplinary hackathon to double the size of 400 participants

**Mentor Coordinator** - StarterHacks | <https://www.starterhacks.ca> Aug '19 - Jan '20

- Recruiting and organizing the experience for 150 mentors at Canada's largest beginner hackathon of over 1000 participants