

# Taylor von Hausen

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## Skills

**Languages:** Python, C, Java, HTML/CSS, JavaScript, Verilog

**Software:** Git, Bash, PowerShell, MATLAB, MongoDB, XCode, Android Studio

## Education

**Bachelor of Engineering, *University of Guelph***  
Engineering Systems and Computing (Co-op)

*September 2016 - April 2021*

## Experience

**Software Developer, *Cognitive Systems Incorporated*** *January 2019 - December 2019*

- Developed a Python program to simulate a “motion walkthrough test” under different device sensitivity conditions using Pandas data frame and Matplotlib.
- Implemented an authentication layer for an internal JavaScript web application and improved the UI/UX of the application, added continuously updated bar graph to display motion detected.
- Created a suite of 100 tests for an iOS and Android application that reduced QA work needed for the apps.
- Developed a Continuous Integration system that ran the test suite developed daily and every time a change was made to the applications.

**Quality Assurance Engineer, *SOTI Incorporated***

*May 2020 - December 2020*

- Developed and ran smoke test on a WebRTC application. Performed and directed extensive QA on the WebRTC application.
- Developed an automated test suite for the CLI of the WebRTC application using PowerShell scripting
- Aided in the development of the architecture of an additional automated test suite for WebRTC app.

**IT Coordinator, *MEDA***

*May 2018 - September 2018*

- Designed and developed a Python-Flask application to distribute voucher codes via SMS to recognized clients, with an SMS interface as well as a web interface
- Created and integrated a MongoDB with the Python-Flask application to store information on clients, vouchers, and system logs.

## Projects

**Hardware AES Implementation, *University of Guelph***

- Implemented an AES algorithm using Verilog HDL and C on a DE1-System on Chip development board with a team of four.
- Designed AES encryption/decryption modules, a finite-state machine to act as a hardware interface and a software driver.