

Aidan Crowther

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LINKS

Github:// [aidancrowther](#)
LinkedIn:// [aidancrowther](#)

EDUCATION

CARLETON UNIVERSITY
BCS IN COMPUTER SCIENCE
April 2019 | Ottawa, On

SKILLS

LANGUAGES:

C++ • C • Assembly(x86/HC12/RISC)
JavaScript • Java • Python • HTML

FRAMEWORKS:

Express • NodeJS • Electron • Socket.io

TECHNOLOGIES:

SQL • MongoDB • Docker
Hyper-V Server • Ubuntu Server
FreeBSD • Google Cloud Platform

LIBRARIES:

Virtual Wire • Evilscan • rUptime
Bootstrap • TensorFlow • ffmpeg

VOLUNTEER

**CARLETON COMPUTER SCIENCE
SOCIETY | 2018 - 2019**

- Vice-President

**CARLETON DEV CLUB | JAN 2018 -
APRIL 2019**

- Co-lead and Founder

COMPETITIONS

2018 Hack All The Things 2.2
Placed 1st

2019 CUHacking
Won best use of GCP

2020 CUHacking
Won Ross-Video challenge

EXPERIENCE

BLACKLINE | EMBEDDED DEVELOPER

May 2016 – Sept 2018 | Ottawa, ON

- Worked on embedded web solutions, including web/hardware interfacing
- Developed VXWorks system utilities for custom deployment
- Debugged and tested deployment HC12 code
- Hardware verification for multiple products
- Working with DMA and embedded hardware solutions

WINDRIVER SYSTEMS | SYSTEMS ENGINEER

May 2019 – November 2020 | Ottawa, ON

- Worked on the Helix Virtualization Platform (HVP)
- Jenkins and Test infrastructure management
- JIRA/Agile development and bug management

STATISTICS CANADA | CLOUD SOFTWARE DEVELOPER

November 2020 - present | Ottawa, ON

- Working to develop enterprise search cloud
- Kubernetes and cloud system management

PROJECTS

ODYSSEUS May 2017 - November 2017

- An internal web service for automatically finding and listing local web services
- Created in **NodeJS** with resource locating done using **Evilscan** and server monitoring using **rUptime**

DICE KITS March 2017

- A development kit designed for a workshop to teach basics of hardware interfacing
- Designed and organized a team to construct all boards
- Ran a workshop for different levels of understanding, allowing more advanced users the opportunity to make use of other advanced MCU features

WEATHER LOGGER April 2017 - May 2019

- A power optimized datalogger designed to track local weather data
- Made use of low power features of the MCU to get average power consumption below 1mA
- Using an RF connection, data is sent to a local receiver and tracked on a database VM
- data is accessible in JSON format for reporting and tracking of trends

ASCIIPLAY May 2020 - Present

- A custom designed video player application capable of rendering video to ASCII
- Utilizes multiple C concepts and frame buffering for smooth playback
- Subtitle support as a key feature as all similar players lacked this