

# ANDREW WILLIAMS

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## EDUCATION

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### University of Alberta

*Computer Software Engineering, BSc Co-op*

September 2016 - April 2021

## SKILLS AND TECHNICAL EXPERIENCE

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### Fluent

- Python, JavaScript (jQuery/Node.js/React), HTML/CSS
- MySQL, REST APIs, JSON/CSV
- AWS: Lambda, API Gateway, RDS, EC2, S3, SQS, CloudWatch
- HubSpot: Serverless Functions, Workflows, APIs, Developer Tools (CLI), Apps, HubL, HubDB
- Integrations with NetSuite, HubSpot, AWS, Stripe, Shopify, Eventbrite, Wordpress, WooCommerce

### Proficient

- C++, MATLAB, Bash/PowerShell
- Docker, Git, Linux (Mostly Ubuntu)
- Website SEO

### Familiar

- C, Java, Rust, Lisp, PHP, Assembly
- Microsoft SQL Server, NoSQL, SOAP APIs, XML

## WORK EXPERIENCE

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### Software Engineer

*Flawless Inbound Inc. — Web Development Team*

May 2021 - Present (Full-Time)

July 2020 - May 2021 (Part-Time)

- Created dozens of custom cloud integrations including CRM, Medical, Ecommerce, and
- Using JavaScript in various development environments to develop back-end code for ecommerce websites
- Engaging in regular meetings directly with clients across the U.S. and Canada to ensure project expectations are being met
- Constantly verifying code through continuous integration in order to produce regular deliverables to clients

### Embedded Systems Developer Co-op

*AlbertaSat (University of Alberta Satellite Group) — Software Team*

May - December 2020

- Developing driver and application level software for the Digital Fluxgate Magnetometer (DFGM) on-board the Ex-Altia 2 satellite
- Conforming to strict testing criteria and workflow, including test-driven development and extensive integration testing for satellite subsystems
- Embedded systems design experience in C using the FreeRTOS kernel

**Engineering Co-op Student**

January - August 2019

*ATCO Gas — Telecommunications Engineering Department*

- Lead the commissioning of dozens of telecommunication tower and radio network upgrades vital to ATCO's internal infrastructure
- Performed project management duties including budgeting, scheduling contractors, and procurement for several projects concurrently
- Reliably met individual and team deadlines regarding project completion and budget projections

**Engineering Co-op Student**

May - August 2018

*Tetra Tech Inc. — Infrastructure Technologies Group*

- Utilized machine learning techniques to solve complex data analysis problems, such as object recognition from 3D LiDAR point clouds
- Began the development of a data hosting website for clients to view and interact with terabytes of data
- Wrote programs both independently and in teams to solve various data analysis problems, using both Python and MATLAB
- Operated a road surface profiling vehicle which uses state of the art data collection equipment