

ANDREW WILLIAMS

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EDUCATION

University of Alberta

Computer Software Engineering, BSc Co-op

September 2016 - April 2021

SKILLS AND TECHNICAL EXPERIENCE

Fluent

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

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

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 more
- Engaged in regular meetings with clients across the U.S. and Canada to ensure project expectations are met
- Used JavaScript and Python in various development environments to write front and back-end code for client websites
- Built back-end database and automation infrastructure using AWS services for specific client needs outside of standard CRM functionality

Embedded Systems Developer Co-op

AlbertaSat (University of Alberta Satellite Group) — Software Team

May - December 2020

- Developed driver and application level software for the Digital Fluxgate Magnetometer (DFGM) on-board the Ex-Altas 2 satellite
- Conformed 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
- Regularly attended high-level group meetings as well as project specific site visits to ensure my individual projects were aligned with the teams goals

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