

# Dragon Prevost

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## LANGUAGES AND SKILLS

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• Python • Typescript • Go • Machine Learning • Web API • OOP • Functional Programming • Algorithms

## EDUCATION

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### University of Victoria

*Bachelor of Science in Computer Science*

Victoria, BC

*April 2021*

### University of Victoria

*Diploma in Business Administration*

Victoria, BC

*April 2015*

## EXPERIENCE AND PROFICIENCIES

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### MazumaGo

*Software Engineer*

Vancouver, BC

*September 2021 - Current*

**Web Architecture:** Utilized Django rest framework to develop a financial banking ledger and API.

**Product Ownership:** Effectively owned various portions of the product through planning, creating product specifications and, allocating engineering resources.

**Communications:** Collaborated with sales/growth team to improve product iteration and feature development.

**Authentication:** Implemented a flexible multi-factor authentication system using openID and Json Web Tokens.

### Urthecast

*Machine Learning Engineer*

Vancouver, BC

*April 2020 - Jan 2021*

**Pre-processing:** Automated Earth observation data processing pipelines for training machine learning models.

**Customer Relation:** Regularly presented project progress and results to internal and external stakeholders.

**Architecture:** Contributed to the development, architecture, and design of scalable machine learning products.

**Regression Models:** Applied XGBoost's Random Forest regressor models to predict soil moisture from various Earth observation products such as the European Space Agencies Sentinel platform.

**Segmentation Networks:** Trained, tuned and evaluated a Feature Pyramid Segmentation Network to classify active wildfires via Earth observation data sets.

### UVic Aero Club

*Software Lead*

Victoria, BC

*May 2017 - April 2020*

**Networking and Communications:** *Python's socket* library to implement *UDP* video streaming platform.

**Electrical Systems:** Soldering, motor control, and serial protocol applied to ground vehicle control system.

**Leadership and Project Management:** Executive leader for a team of 10+ software developers through various aerospace projects. Using development tools and concepts such as *Git*, issues, backlogs, and pull requests.

**Interdisciplinary Operation:** Practiced communication and development through various interdisciplinary projects involving software, electrical and mechanical engineers.

### SES Consulting

*Software Engineer Co-op*

Victoria, BC

*January 2019 - Aug 2019*

**Front-End:** Utilized cutting edge front-end tools such as JavaScript, React and Storybook. Optimization of state management in a web application with resources such as React's *hooks* and *context*.

**Back-End:** Endpoint development using the *Django* framework and *PostgreSQL DBMS*.

**Agile Development Process:** Exercise the scrum agile development process with Jira and Git.

**Data Structures:** Reduce front-end render time via data structures such as adjacency matrices and hash tables.

**Design System:** Component library for a React development team to quickly access properties of components.

### Barnacle Systems

*Software Engineer Intern*

Victoria, BC

*Oct 2017 - Dec 2017*

**Embedded C:** Develop daemons on the Legato framework to monitor the accelerometer on an IoT platform(mangOH WP85). Made use of Industrial Input-Output and low-level device drivers.

**Software Deployment:** Oversee deployment and managing software updates to a network of IoT devices.

**Linux and Drivers:** Work with a custom Linux distribution while developing low-level daemons on a marine vessel IoT device. Experience with drivers, micro-processors, IIO, and systems.

## PROJECTS

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**Echo Synth:** Synthesizer written in Python, designed to modify and recreate sounds that occur in the natural world.

**Battle Snake:** A-Star shortest path algorithm applied to a bot that plays a competitive game of snake.

**Collaborative Playlist Generator:** Web application for automating collaborative playlists using the *Spotify API*.

**Distributed Video Annotation:** A distributed architecture with *Python* and *Kubernetes* to annotate video context.

**Cognitive Load Classifier:** Boosted tree classifier trained to identify the presence of cognitive load from EEG input.