

**Hugh Brown**  
**hugh@va7unx.space**  
**604-441-4959**

**Objective: A chance to use and expand my technical skills to help humanity expand into space.**

## **Skills and Strengths**

- Over 20 years of Linux systems administration, DevOps, and software development experience, in environments ranging from back-office operations to HPC to cloud-native deployments to IOT
- A lifelong learner, with the demonstrated ability to learn new tools and skills as needed
- A focus on agile development techniques and constant delivery of value to the customer
- A strong communicator, able to explain technical matters to wide audiences

## **Employment**

*Technical lead, Cisco Cloud Infrastructure Engineering – November 2020 to present*

As a member of Cisco's Cloud Infrastructure Engineering division, I helped turn an award-winning internal hackathon project written with a coworker into production as a full-fledged, multi-region, cloud-deployed API; mentored junior developers; helped build a culture of success within a new team (code review, software testing); architected and helped implement an API to present network measurement information to external teams; and served as a resource for the team on cloud deployment and management.

*Core Contributor, PolarisML – October 2018 to August 2021*

PolarisML (<https://polarisml.space>) is an open source project to analyze satellite telemetry using machine learning techniques. As a core contributor, I helped establish the project and integrate it with the Libre Space Foundation; participated in all aspects of development (writing code, reviewing pull requests, and planning new features); mentored Google Summer of Code students over 3 summers; and presented the project at the 2020 Cubesat Developer's Workshop.

*FleetOps Engineer, Balena.io – March 2020 to November 2020*

In this role I managed complex migrations for customers; served as a second level of support for customers; investigated and resolved issues affecting large segments of our fleet; proposed strategic efforts to improve our product and internal tooling; and provided assistance to our sales and customer success engineers.

*Systems Engineer, OpenDNS/Cisco Umbrella - July 2014 to October 2019*

As a member of the Systems Engineering and Security Services teams, I managed and monitored of a fleet of 600+ servers over 25 data centres; installed and operated OpenStack for internal use; responded to internal security incidents; and helped develop, operate and secure a RESTful API, written in Go and deployed to Docker/Kubernetes, providing authorization and authentication for an internal IaaS/PaaS.

*Systems Manager, Centre for High-Throughput Biology, Vancouver BC- July 2008 to June 2014*

As sole system administrator for the Centre, I supported faculty research by assisting in proposal writing, capacity planning, and build of the Centre's new server room; worked closely with developers in monitoring and improving my supervisor's principal web application; purchased, installed and managed 50 Linux servers and a 450-core HPC cluster; and trained and supported new researchers and students with widely varying technical knowledge.

## **Education**

*University of Waterloo, Waterloo, Ontario – 1990 through 1992*  
BSc (Hons) Physics - Four year program (incomplete)