



## Samuel Blais-Dowdy

Site Reliability Engineer at  
Covariant

☾ I will code you the moon ☾

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## 🇫🇷 Languages

🇫🇷 French - Native

🇬🇧 English - Fluent

🇪🇸 Spanish - Intermediate

## + 🎮 Hobbies

💻 Programming

🏒 Ice Hockey

🤖 Robotics

🎾 Tennis

🍺 Microbreweries

🏋️ Working Out

## 👤 About Me

DevOps Engineer with Linux, Kubernetes, Docker and Go experience. I think what makes me different from other engineers, is that I work very hard to find innovative and effective ways to test my projects. I don't like leaving anything up to chance. I also go the extra mile in an attempt to achieve "true" production-grade.

## 🔧 Projects

### Archsugar

Default dotfiles accompanying archusgar-cli. Your ArchLinux Workstation as Code.

### Archsugar-cli

Golang CLI /w cobra for archsugar project

### CoderPro in Python

Solving popular interview questions in Python, with space and time complexity analysis.

### CoderPro in Go

Solving popular interview questions in Golang, with space and time complexity analysis.

### CoderPro in C++

Solving popular interview questions in C++, with space and time complexity analysis.

### My Online Resume

Generate and publish my resume with Hugo, Bootstrap, jQuery, Font Awesome and Github Pages.

## 🧰 Skills

🐧 Linux   `</>` Go   🐳 Docker   `</>` Bash   🐍 Python

🏗️ Kubernetes   🚢 Gitlab CI/CD   📡 Monitoring   @  
Ansible/Saltstack

🔧 Terraform   📄 Microservices   🔄 gRPC   🔗 GraphQL

🇨🇸 C++   🦀 Rust   🧠 Deep RL

🤖 Robotics   📌 Arduino

## 🧰 Experience

### Site Reliability Engineer - Covariant

02/2021 - present · 1 months

- Developed a custom telegraf kubernetes app to collect metrics from airflow jobs over UDP (with PodDisruptionBudget, HorizontalPodAutoscaler and ServiceMonitor)
- Refactored salt states to manage non-prod/prod Ubuntu robot stations
- Created a very detailed Vagrant-based sandbox to speed-up salt development
- Led "Patching Sessions", where we live-upgrade various part of our infrastructure (k8s, salt, etc.)

### DevOps Engineer - Epic

08/2020 - 02/2021 · 7 months

- Contributed an HTTP middleware library, containing a performant json-logger and default prometheus instrumentation (Golang)
- Developed and deployed a risk-evaluation microservice to automate certain Puppet operations (Golang)
- Pioneered our adoption of Terraform, by writing example modules, documentation and delivering both a module and a live pipeline
- Wrote and deployed a multi-cluster monitoring solution using the Prometheus Operator

## DevOps Engineer - Bell Canada

05/2019 - 03/2020 · 10 months

- Delivered a pipeline for a monolithic Django web application using Gitlab CI, Ansible roles and systemd services
- Delivered a pipeline and helped to migrate the Django monolith to a microservices architecture, using Go, Gitlab CI, docker swarm and Ansible roles
- Performed production shutdown maintenance
- Configured alpine containers for production

## Security Analyst - Bell Canada

05/2018 - 05/2019 · 12 months

- Performed analysis and escalation of security threats in collaboration with Senior Security Analysts
- Participated in high-impact cybersecurity incident response and wrote report for management
- Helped improve our Use Cases by providing feedback to Threat Hunters
- Used Arcsight SIEM along with other security tools (Nmap, traceroute, OpenSSL, Wireshark, F5 WAF, vendor dashboards, Radware, Arbor, etc)

## Teaching Assistant - University of Montreal

01/2018 - 05/2018 · 3 months

- Prepared weekly cybersecurity labs for graduate and undergraduate students
- Gave two lectures on symmetric/asymmetric cryptography
- Helped student perform a full exploitation of a Vulnhub VM, from fingerprinting, to exploiting a PHP server, and finishing with Linux privilege escalation
- Demonstrated and explained popular security tools

## Education

### B.A. in Computer Science and Mathematics

2015-2018 - University of Montreal

### B.A. in Accounting

2012-2015 - University of Quebec in Abitibi-Temiscamingue

## Certifications

### Reinforcement Learning Specialization

Coursera

Issued 11/2020 · No Expiration Date

### CKA: Certified Kubernetes Administrator

The Linux Foundation

Issued 11/2020 · Expires 11/2023

### Modern Robotics, Course 2: Robot Kinematics

Coursera

Issued 11/2020 · No Expiration Date

### Modern Robotics, Course 1: Foundations of Robot Motion

Coursera

Issued 10/2020 · No Expiration Date

### Applied Plotting, Charting & Data Representation in Python

Coursera

Issued 04/2020 · No Expiration Date

### Introduction to Data Science in Python

Coursera  
Issued 04/2020 · No Expiration Date

**LFCS: Linux Foundation Certified Systems Administrator**

The Linux Foundation  
Issued 11/2019 · Expires 11/2022

**Docker Certified Associate**

Docker Inc.  
Issued 12/2019 · Expires 12/2021