



Samuel Blais-Dowdy

Site Reliability Engineer at  
Covariant

☾ I will code you the moon ☾

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🔗 [sugarraysam.github.io](https://sugarraysam.github.io)

🐙 [github.com/sugarraysam](https://github.com/sugarraysam)

🌐 [linkedin.com/in/sugarraysam](https://linkedin.com/in/sugarraysam)

🗣️ 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++](#)

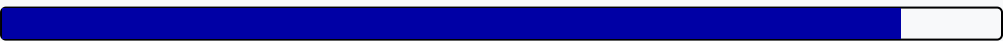
Solving popular interview questions in C++, with space and time complexity analysis.

[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



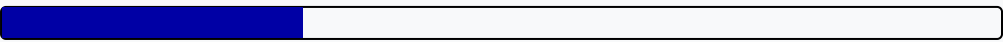
🔧Terraform   📄Microservices   ⚙️gRPC   🔌GraphQL



⚡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