

Samuel Blais-Dowdy

Site Reliability Engineer at Covariant

Sugarraysam.github.io

github.com/sugarraysam

in linkedin.com/in/sugarraysam

- * French Native
- **|≅** English Fluent
- Spanish Intermediate

Hobbies

- Programming
- Ice Hockey
- Robotics
- Tennis
- Microbreweries
- **H** Working Out



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.

T Projects

<u>Archsugar</u>

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.

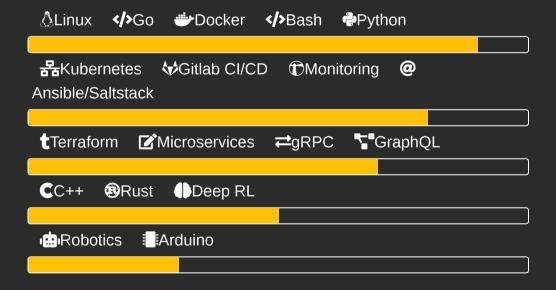
CoderPro in C++

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.







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.)

- 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/assymetric 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

Q 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 $10/2020 \cdot \text{No Expiration Date}$

<u>Applied Plotting, Charting & Data Representation in Python</u>

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