



Samuel Blais-Dowdy

Site Reliability Engineer at
Covariant

☾ I will code you the moon ☾

✉ samuel.blaisdowdy@protonmail.com

🔗 sugarraysam.github.io

👤 github.com/sugarraysam

🌐 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