

# BRIE TAYLOR

Senior Site Reliability Engineer

📞 +1 (778) 779 - 2383    📍 Vancouver, BC    📧 brie.taylor.318@gmail.com

## Profile

Site Reliability Engineer with many years of experience building large systems. I love working with distributed and low level systems, and resolving problems that begin at the network layer or at large scale. I have extensive design experience, and I'm confident managing risks and priorities in a dynamic environment. What I bring to the table is a creative mind, the persistence to keep digging into a problem until it's solved, and a strong desire to solve real problems and build services that are a joy to use.

## Skills

Kubernetes  
Go Programming Language  
Linux  
Amazon AWS & GCP  
Monitoring  
Prometheus, Grafana, Opensearch  
Postgres & MySQL  
Networking  
Python, Numpy, Flask

## Links

🌐 [[github.com/brietaylor](https://github.com/brietaylor)]  
🌐 [<https://www.linkedin.com/in/brie-taylor-34502063/>]

## Experience

### Senior Site Reliability Engineer

*Raydiant Experience Platform. May 2022 - Present*

- ▶ Developed observability and monitoring systems using Prometheus, Grafana, and Opensearch.
- ▶ Created new fleet management APIs (using Go), and load testing services with k6.
- ▶ Managed reliability and security for software stacks using a wide range of technologies across 2 cloud providers. The stacks included systems built on Kubernetes & Terraform IaC, Postgres, MariaDB, Redis and DynamoDB databases, systems built on EC2 with Ansible, and systems built under AWS Lambda with Serverless.
- ▶ Developed CI/CD systems for applications and IoT device deployments.

### Site Reliability Engineer

*Parallel Domain. Apr 2020 - Feb 2022*

- ▶ Spearheaded a company-wide shift to Kubernetes to improve agility and reliability. Provisioned and maintained clusters. Automated processes as much as possible to reduce toil and eliminate inefficiencies.
- ▶ Developed and supported new API products which directly contributed to company revenue.
- ▶ Managed AWS resources with Terraform including services on IAM, EC2, EKS, Cloudfront, RDS, etc.
- ▶ Provided monitoring, logging, and alerting tools with Prometheus, Elasticsearch, and Grafana. Wrote a number of additional monitoring systems in Python.
- ▶ Designed Postgres and MySQL database schemas and migrations. Managed backups, availability, and upgrades.
- ▶ Managed network configuration, VPC's, firewalls, security groups, and VPN.

### SRE / Cloud Architect

*Serratus Project. Mar 2020 - Aug 2020*

- ▶ Pioneered a new approach to genome search. This work

# Education

## **BASc, Engineering Physics.**

*University of British Columbia. Sept 2009 – Dec 2015*

expanded the number of known RNA virus species by a factor of 9.8 times worldwide.

- ▶ Designed an autoscaling and orchestration system with Docker and Amazon EC2. Scaled to over 1,000 nodes (22,500 vCPU). Aggressively optimized costs to achieve an unprecedented cost efficiency in this field.

- ▶ Published a paper in Nature, which is viewable online at [<https://serratus.io>]. Source code is available at [<https://github.com/ababaian/serratus>]

## **Devops Engineer**

*3vGeomatics. May 2015 – Dec 2017*

- ▶ Developed and maintained a grid computing system with SGE. Created scripts to automate cluster management.

- ▶ Performed on-call debugging for delivery of time-sensitive products.

- ▶ Automated deployment and configuration of Linux servers and workstations using Puppet and RPM.

- ▶ Developed continuous integration systems with Pytest and Jenkins.

- ▶ Developed InSAR image processing pipelines and simulations with GDAL, Python, and C.

## **Software Engineering Co-op**

*JDSU. May 2021 – Apr 2013*

- ▶ Developed firmware and hardware in C and VHDL for a super high throughput mobile telecom simulation system.

- ▶ Developed CI systems to automate software testing and building, with Python and Jenkins.

## **Radio Engineering Co-op**

*Rogers Wireless. Jan 2011 – Apr 2011*

- ▶ Rolled out new base station configurations. Developed automation and mapping scripts using Python to reduce toil.