

Dillon Chan

<https://mosiman.ca>

<https://github.com/mosiman>

Skills

Technical

- Python
- Golang
- Julia
- Kubernetes
- Docker
- Terraform
- AWS
- Linux
- PostgreSQL

Work Experience

Bridgit

Junior Devops Specialist
Feb.2020 - Present

- Manage multiple Kubernetes clusters.
- Maintain infrastructure via Terraform.
- Write microservices to enable developer velocity.
- Revamped CI system to be cloud native via Argo Workflows, decreasing integration test time by 65%.

Bridgit

Software Development Intern
May.2019 - Aug.2019

- Wrote internal tooling in Python to bootstrap client projects.
- Developed Razor Pages (C#) application to visualize backend systems for customer support team.
- Built a dashboard to visualize API usage statistics with Python and Dash.

Relevant Projects

Parking Ticket Visualization (2018)

- Gathered and cleaned public parking ticket data.
- Computed additional features with OpenStreetMap Nominatim and Overpass.
- Analysis done in Julia. Built a C# API backed by MySQL. Visualized with Leaflet.js and Plotly.

mosiman.ca (2018)

- Static site powered by Hugo.
- Houses dynamic applications (e.g. Parking Ticket Visualization) via external APIs.

Computational modelling of auxin patterns (2018)

- Researched existing mathematical models for plant structure formation and explored novel extensions.
- Simulated novel model using large ODE systems in Python with SciPy.
- Compiled findings into well-received interactive presentation and written report.

Education

University of Waterloo

BMath Applied Mathematics (Scientific Computation)
Minors in Computer Science & Statistics

Waterloo, ON
Sep.2015 - Dec.2019

Favourite Courses

- Computational Math
- Computational Statistics
- Computational Inference
- Numerical Linear Algebra
- Genomics
- Group & Ring Theory
- Applied Real Analysis
- Applied Probability & Stochastic Processes
- Computational Modelling in Cellular Systems
- Object-Oriented Software Development
- Designing Functional Programs
- Ordinary/Partial Differential Equations
- Numeric Computation for Financial Modelling
- Introduction to Computation Biology