



dillon@mosiman.ca

github.com/mosiman

<https://mosiman.ca>

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Technical Skills

- Python
- Go
- C#
- F#
- Julia
- Kubernetes
- Terraform
- AWS
- PostgreSQL

Work Experience

Bridgit

Machine Learning Engineer
01/2022 - Present

- Built Kimball-style Data Warehouse utilizing PostgreSQL logical replication.
- Created and maintained ETL pipelines from a variety of sources.
- Lead development of a recommender system for allocating people to construction projects.
- Handled data requests and reporting for internal stakeholders.

Bridgit

Junior DevOps Specialist
02/2020 - 01/2022

- Managed multiple Amazon EKS Kubernetes clusters.
- Maintained infrastructure as code via Terraform.
- Monitored application health and performance via Prometheus and Grafana.
- Wrote microservices in Go to enable developer velocity.
- Migrated CI system to Argo Workflows, decreasing integration test time by 65%

Bridgit

Software Development Intern
05/2019 - 08/2019

- Created internal tooling for bootstrapping client projects, decreasing setup time by 90%.
- Developed full stack application to visualize backend systems for customer support team.
- Built dashboard to visualize API usage statistics with Python and Dash / Plotly.

Relevant Projects

<https://mosiman.ca>
ongoing

- Styled with Tailwind CSS.
- Hosted on personal infrastructure.

Parking Ticket Visualization
2018

- Gathered and cleaned public parking ticket data.
- Computed additional features by geocoding addresses via OpenStreetMap.
- Built a C# API to serve parking ticket statistics per-street. Visualized with Leaflet.js and Plotly.

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 via SciPy.
- Compiled findings into well-received interactive presentation and written report.

Education

University of Waterloo
Waterloo, ON
09/2015 - 12/2019

- BMath Applied Mathematics (Scientific Computation)
- Minor in Computer Science
- Minor in Statistics