Ben Little

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Summary

Cloud-native software engineer and mathematician looking to work with an academically and culturally diverse group of scientists, engineers, and developers. I have **1.5 years of experience using containerized deployments** and write application code in a variety of languages. I strive to build applications that **fail early** and provide **quantifiable guarantees** about computational correctness and service level.

Technical Overview

Languages	Python, Go, Javascript, Raku, others
Frameworks	Linux, Docker, Kubernetes, OAuth2, gRPC
CI/CD	GitLab CI, Google Cloud Build
Cloud Technology	Terraform, Google Compute Engine, BigQuery, IAM

Skills

Machine Learning	Tensorflow, Scikit Learn, MiniMax/UCT/AlphaZero
Linear Algebra	Lie theory, representation theory, exterior calculus
Optimization	Variational methods, gradient descent, Hamiltonian Monte Carlo
Computer Science	Logic, dependent type theory, complexity theory
Physics	Quantum mechanics, relativity, and modern geometry

Employment History

Special Projects Engineer

Fruition, Denver, CO May 2020 - Aug 2020

- ❖ Manage day-to-day Kubernetes operations
- ❖ Maintain git repositories
- ❖ Deploy infrastructure on Google Cloud Platform
- ❖ Write CI/CD pipelines for building, testing, and deploying applications
- ❖ Write application code in a variety of languages using test-driven development
- ❖ Assist in development of dev ops practices and standards

Machine Learning Specialist

Fruition, Denver, CO June 2018 - May 2020

- ❖ Study development team's practices related to data reporting and use

❖ Write applications for extracting and transforming data using cloud tools

Research and Development Engineer

Penn State, State College, PA 2015 - 2017

❖ Assist senior research scientist with mathematical foundations of intelligence
❖ Provide mathematical advisory to agile software development team

Education

Bachelor of Science, Mathematics
Physics Minor
The Pennsylvania State University 2015