

GREG HILSTON

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TECHNICAL

Languages Python | Javascript | Bash | SQL | Java | Swift | C | C++ | C# | LaTeX
Technologies Docker | Terraform | Git | AWS | GCP | Serverless Framework
Concepts Software Engineering | Cloud Architecture | Machine Learning | Dev Ops | Web Application Development

EMPLOYMENT

Sunrun Senior Software Engineer *Remote* April 2022 - Present

- Lead software efforts for Sunrun & Ford partnership for F150 Lightning electric truck
- Reduced daily telemetry API errors by 860%
- Captured, processed, stored, and served telemetry for Ford installation sites; ingested at a 2,600 records per day cadence
- Handled solar panel, inverter, and wall box registrations for every F150 site
- Built a series of machine learning forecasting models to predict solar panel daily production
- Mentored team members by providing pairing coding sessions, and code reviews

Mosaic Data Science Senior Data Scientist *Remote* June 2021 - March 2022

- Explored companion animal metrics, their relation to various health ailments, and built out a data pipeline using Python, Pandas, Matplotlib, Scikit Learn and Prophet
- Designed a computer vision tool to automate a car wash's tracking of vehicles which alleviated human operators' responsibilities leveraging Python, YOLO, Docker, and AWS
- Reduced model inference time by a factor of forty three, while reducing monthly infrastructure costs by over \$2,000 per month using Docker, Serverless Framework, and AWS

Hop Labs Machine Learning Engineer *Remote* May 2020 - June 2021

- Improved a popular meal delivery service's recommendation algorithm to leverage user to user and item to item data
- Productionalized data pipelines leveraging ZeroMQ to process images in real time
- Engineered AWS infrastructure for client's data science team using Terraform, SageMaker, S3, RDS, Batch and Step Functions
- Reduced experimentation time by analyzing and leveraging platforms such as Metaflow, Cnvrg and Weights & Biases

Madwire Data Scientist *Fort Collins, CO* February 2018 - May 2020

- Built a 1st party Customer Data Platform that can process over 150,000 daily web events and analyzed Google Ads performance metrics such as ROI using GCP PubSub, Cloud Functions, Cloud Spanner and Cloud BigTable
- Automated the classification of more than 60% of businesses' verticals and mapping to third party categories (NAICS, SIC, etc) through the use of ML with spaCy, Gensim, Sklearn and Keras
- Extracted summaries from user reviews to improve SEO using TF-IDF and Page Rank algorithm
- Developed a scalable service to clean and parse user inputted business hours using Ray

Software Engineer October 2016 - February 2018

- Developed a native iOS application "Top Rated Local", a business review platform

Front Range Community College Adjunct Professor *Fort Collins, CO* Fall 2019

BAE Systems, Inc. Leadership Program: Software Engineer *Merrimack, NH* June 2012 - September 2016

OPEN SOURCE CONTRIBUTIONS

Metaflow github.com/Netflix/metaflow-tools/pull/26

Implemented feature parity of Metaflow's AWS CloudFormation stack using Terraform

Simple Slack Bot github.com/GregHilston/Simple-Slack-Bot

Developed a Python framework to make the development of Slack bots quicker and easier

EDUCATION

Johns Hopkins University *December 2018*

Master of Science, Computer Science, *magna cum laude*

University of New Hampshire *May 2015*

Bachelor of Science, Computer Science, *cum laude*

INTERESTS

Reading | Home Servers | Baking | Snowboarding | Teaching | Game Dev | Games | VR | Paintball | Airsoft | Rock Climbing