

GREG HILSTON

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TECHNICAL

Languages	Python Typescript/Javascript/Node Golang Bash Java SQL
Technologies	Docker Terraform Git Airflow AWS GCP
Concepts	Software Engineering Cloud Architecture Dev Ops Machine Learning Backend Web Development

EMPLOYMENT

Sunrun Senior Software Engineer *Remote* April 2022 - Present

- Currently leading the “Grid Services” team, orchestrating intelligent energy export from distributed solar and battery resources to the grid (*AWS MWAA, GCP Cloud Functions, Snowflake, Javascript, Python*)
- Transferred 691 TB of compressed (3 PB uncompressed) GCP Big Table data to Singlestore (*Java, Apache Beam, GCP Dataflow*)
- Recognized as “Observability Subject Matter Expert”; Architected team’s Observability Stack with logs, metrics, dashboards, alerts and run books (*Javascript, GCP Log Based Metrics, Grafana*)
- Ingested over 70,000 batches of telemetry messages per day for Ford solar sites (*Javascript, GCP Cloud Functions*)

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 (*Python, Pandas, Matplotlib, Scikit Learn, Prophet*)
- Designed a computer vision tool to automate a car wash’s tracking of vehicles which alleviated human operators’ responsibilities (*Python, YOLO, Docker, and AWS*)
- Optimized model inference performance by a factor of 43x (from 5 minutes to 7 seconds), while reducing monthly infrastructure costs by over \$2,000 per month (*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 (*Python*)
- Productionalized data pipelines that processed images in real time (*Python, ZeroMQ*)
- Engineered cloud infrastructure for data science team (*Metaflow, Terraform, AWS SageMaker, S3, RDS, Batch/Step Functions*)

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 (*GCP PubSub, Cloud Functions, Cloud Spanner, 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 (*Python, spaCy, Gensim, Sklearn, Keras*)
- Extracted summaries from user reviews to improve SEO (*Python, Flask, TF-IDF, Page Rank algorithm*)
- Developed a scalable service to clean and parse user inputted business hours (*Python, Ray*)

Software Engineer October 2016 - February 2018

- Developed a native iOS application “Top Rated Local”, a business review platform (*Swift, Objective C*)

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

Send2Ereader github.com/daniel-j/send2ereader/pull/17

Dockerized a convenient web application for wirelessly sending ebooks to ereaders (*Docker*)

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

Implemented feature parity of Metaflow’s AWS CloudFormation stack (*Terraform*)

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

Developed a framework to make the development of Slack bots simpler (*Python, requests, websocket*)

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

Blogging | Reading | Home Servers/Self Hosting | Baking | LLMs | NixOS | Board/PC Games | Paintball/Airsoft | Teaching