

GREG HILSTON

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TECHNICAL

Languages Python, Java, Swift, C, C++, C#, Bash, LaTeX
Technologies Git, Terraform, Docker, AWS, GCP
Concepts Software Engineering, Machine Learning, Testing, Dev Ops, Web Application Development

EMPLOYMENT

Hop Labs

Machine Learning Engineer

Remote

May 2020 - Present

- Reduced experimentation time by analyzing and leveraging platforms such as Metaflow, Cnvrng and Weights & Biases
- Engineered AWS infrastructure leveraged by client's data science team using Terraform, SageMaker, Batch and Step Functions
- Enabled local and cloud execution of model training using Pandas, Spark, Snowflake, PyTorch, AWS and Metaflow

Madwire

Data Scientist

Fort Collins, CO

February 2018 - May 2020

- 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
- Created synonyms of business verticals to improve SEO using ML with spaCy, Gensim and word embeddings
- Flagged inappropriate reviews and images using Flask and Google's Vision API
- Modeled lead conversion to provide insight for sales teams and leadership using ML with CatBoost
- Built a 1st party customer data platform (CDP) 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
- 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
- Classified businesses programmatically saving years of projected manual labor using Spacey, Gensim, Sklearn and Keras

Senior Software Engineer

October 2016 - February 2018

- Developed a native iOS application "Top Rated Local", a business review platform
- Introduced software testing continuous integration and deployment to the company
- Trained new hires and counseled other engineers via Madwire's mentorship program
- Organized weekly coding challenges, daily coding exercises ("katas"), weekly technical presentations and mentoring others

Front Range Community College

Adjunct Professor

Fort Collins, CO

Fall 2019

- Taught "Computer Science I: Java", developed and presented original curriculum

BAE Systems, Inc.

Engineering Leadership Development Program - Software Engineer

Merrimack, NH

June 2012 - September 2016

- Lead software engineer for integrating firmware with embedded systems using C++
- Mentored summer interns and co-op students

PROJECTS

Fort Collins Data Science Meetup

[meetup.com/Fort-Collins-Data-Science](https://www.meetup.com/Fort-Collins-Data-Science)

Organized and gave talks on various topics (e.g, ML, NLP (Word Embeddings), CI/CD, Git and Software Development...)

Simple Slack Bot

github.com/GregHilston/Simple-Slack-Bot

Developed an open source Python framework to make the development of Slack bots quicker and easier

Data Science Portfolio

github.com/GregHilston/data-science-portfolio

A github repository describing seventeen data science projects I completed, with links to individual repositories where available

EDUCATION

Johns Hopkins University

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

December 2018

University of New Hampshire

Bachelor of Science, Computer Science, *cum laude*

May 2015

OTHER INTERESTS

Home Servers, Rock Climbing, Teaching, Game Development, Writing, Reading, Virtual Reality, Baking and Airsoft