

ERIK COWLEY

Data Scientist
https://datascience.stromsy.com
https://github.com/ekoly
https://www.linkedin.com/in/stromsy/

ecowley@protonmail.com
978-870-3062
Lunenburg, MA 01462

SKILLS

- **Languages:** C, C++, Python, Bash Shell, PostgreSQL, SQLite, Java
- **Technologies:** pandas, sklearn, flask, Plotly/Dash, seaborn, spacy, keras, Bootstrap, ROS, docker

DATA SCIENCE PROJECTS

UFC Fight Prediction, Lambda School, <https://github.com/ekoly/ufc-fight-prediction>, 2020

- Utilized a RandomForestClassifier optimized with RandomizedSearchCV to predict the outcome of UFC fights, with a ShapExplainer to reveal the most important factors
- Deployed a Plotly Dash app where the user can select fighters and see who would likely win

Twitoff, Lambda School, <https://github.com/ekoly/twitoff-app>

- Used a LogisticRegression to analyze tweets of two specific accounts by their basilica.ai embeddings.
- Cached models using Redis
- Deployed a Flask app allowing the user to enter text and determine which twitter account is more likely to tweet it

AirPrice, Lambda School, <https://github.com/build-week-optimal-pricing/Data-science>

- Analyzed AirBnB listings in Berlin and utilized a XGBRegressor to determine the optimal price at which an owner should rent out their property

RELEVANT EXPERIENCE

Associate Engineer

December 2020-present

ScienceLogic

- Implemented monitoring software for concurrently collecting CPU, memory, and network usage, as well as other data, from large numbers of servers and switches using the SNMP protocol
- Wrote Python code for an oracle linux environment with a MariaDB database

Student Team Lead

January 2020-December 2020

Lambda School

- Supported students in 1-on-1 sessions and hosted stand-up meetings several times a week
- Reviewed code for and mentored a group of 6 students
- Provided tutoring on Python, pandas, statistics and linear algebra

Consultant Developer

January 2019-September 2019

Edward Jones, St. Louis, MO (through FDM Group, Inc.)

- Redesigned the internal bug reporting web page to file tickets to the relevant project
- Completed a 3 month intensive training program in Java development

Software Engineer

April 2015-February 2017

WordStream Inc, Boston, MA

- Performed Python development in a CherryPy/webapp2 framework utilizing Facebook's marketing API; investigated new FacebookAds releases and tracked known bugs
- Created a weekly adoption report script to gather usage statistics and send them to the product team
- Used JavaScript with knockout.js and Bootstrap to create reusable UI components such as grids, animated graphs, and modal dialogues
- Worked on Wordstream's Facebook Advertising SaaS product

Software Engineering Intern

May 2012-August 2012

Symantec Corporation, Waltham, MA

- Merged the Norton Online Family and Norton Safety Minder Android apps
- In JavaScript and Java with an Apache Maven build, updated the Norton Online Family .jsp website to comply with API changes
- Used Splunk to visualize call times to help identify performance issues

I.T. Assistant

June 2011-August 2011

Submillimeter-Wave Technology Lab at UMass Lowell, Lowell, MA

- Created python scripts to automate database maintenance tasks and webpage updates
- Troubleshooted on Windows and Mac computers

UNIVERSITY PROJECTS

Google AI Challenge 2011

- Programmed a bot in Python with A* Search and Markov Decision Processes to play the strategy game Ants
- In the AI Challenge Tournament, the bot ranked in the top 10% out of approximately 7900 other bots from around the world

Robotics I Egghunt

- Built and programmed a lego robot to collect plastic eggs of a certain color and deposit them into a goal zone

Robotics I Final

- Programmed a robot in C to track floor tile patterns to navigate along a hall between rooms

Robotics II Midterm Project

- Implemented a Particle Filter in Python for a robot equipped only with distance sensors to localize in a pre-mapped hallway, using ROS for IO and control

Robotics II Final Project

- Programmed a Bilibot robot using ROS and Python to track humans with a Kinect sensor and shoot at them with a Nerf blaster

EDUCATION

Lambda School

Data Science

University of Massachusetts Lowell, Lowell, Massachusetts

Bachelor of Science in Computer Science (Minor: Robotics)

December 2014

GPA: 3.4