Harry Smith

PERSONAL DETAILS

Mail	sharry@seas.upenn.edu
Website	https://ourpropeller.com
Github	https://github.com/sharry29

EDUCATION

Columbia University, New York, NY   2018-2019
M.S. in Computer Science with a Concentration in Machine Learning

University of Pennsylvania, Philadelphia, PA   2014-2018
B.A. in Logic & in Computer Science

TEACHING EXPERIENCE

Lecturer, Computer and Information Sciences   August 2020 — Present
University of Pennsylvania

> I am currently an instructor for the introductory level CIS 110 programming course. This is taught in Java and it serves as the foundation for the CIS curriculum at the University of Pennsylvania.

Instructor for CIS 192 Python Programming   Spring '17, Fall '17, Spring '18
University of Pennsylvania

> Here is the course webpage from Spring 2017: http://cis.upenn.edu/~cis192/spring2017/

TA for Lede Program in Data Journalism   2019
Columbia University, Graduate School of Journalism

> I worked as a teaching assistant for this 50 student program designed to provide professional journalists with skills in coding, machine learning, and data analysis & visualization. I collaborated closely with students during three hour lab sessions, providing both technical help and creative guidance on the students' many individual projects.

FREELANCE WORK

Developer   December '19 - February '20
Scraper Development & Data Management for The Pudding

> I designed a TripAdvisor scraper for a data journalist at the Pudding. I developed a full pipeline for gathering location, attraction, and review data from the site. This required investigating the structure of the site's data, building the crawling logic, running the scraper on AWS instances, and developing a schema and storage system for the several GB of data collected. To accomplish this, I used Python and Scrapy to develop the scraper, AWS EC2 instances for deploying scraper instances, and AWS S3 storage to store the data.

RESEARCH & PRESENTATIONS

Personal Research   August '17—April '18
Predicting NHL Game Winners

    I undertook this research project with a friend who is a member of an online hockey analytics community. We built a model to predict match winners in order to take part in the 2017 season Corsica Hockey Predictions challenge. Our model ended up being the most accurate, winning us a $5,000 cash prize.

Invited Lecturer   September '17
PennApps Hackathon at University of Pennsylvania

Poster Presentation   December '18
American Geophysical Union Fall Meeting, 2018

SUBJECTS OF INTEREST

In no particular order...

Data Visualization, Generative & Digital Art
Natural Language Processing
Theory of Computation, Algorithmic Game Theory