

JEREMY COHEN

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EXPERIENCE

Software Engineer

Abcam

📅 Jan 2020 – August 2020

📍 Cambridge, MA

- Built and integrated a comprehensive Python wrapper for existing protein-analysis software.
- Drastically simplified automated 'Report Generation' built over legacy code.
 - Python, Jython, Scala, Apache POI
- Developed an IP multicast to optimize lab work and establish concept for later integration of computer vision into drug development.
 - Java, Scala, vlcj API

PROJECTS

Music Recommendation System

Machine-Learning Project

📅 October 2020 – December 2020

- Collected and massaged music preference data from hundreds of users on music streaming platforms.
- Used Collaborative Filtering and matrix factorization to recommend new songs based on users with similar listening profiles.
 - Google Colab

Reddit Peace-Love-Happiness Bot

Self-Directed Project

📅 July 2019 – September 2019

- Tries to soothe flared tempers between warring Reddit users by finding some common ground.
- Uses dozens of homemade heuristics to quantify commonality and present some shared interests/qualities.
 - PRAW, Python

Crime Data Visualization

Exploratory Project

📅 February 2019 – April 2019

- Built and populated a MySQL database to answer meaningful questions about gun crime in a given area.
 - MySQL, Jupyter Notebooks, Python
- Used Gaussian clustering and LDA modeling to visualize some potentially non-trivial correlations in crime.
- Trained a recurrent neural network to predict the number of fatalities based on a given crime report.
 - Pandas, SKLearn, Gensim, Matplotlib, Spacy

EDUCATION

B.S. in Computer Science and Philosophy

Northeastern University

📅 September 2017 – May 2022

GPA:3.50

- Dean's List

High School

Nyack High School

📅 June 2017

GPA 3.92

- National Honor Society
- National Merit Scholarship Finalist

COURSEWORK

- Networks and Distributed Systems (IP)
- Software Engineering (IP)
- Artificial Intelligence
- Artificial Intelligence Ethics (Grad)
- Object - Oriented Design
- Data Structures and Algorithms
- Database Management Systems
- Logic and Computation

LANGUAGES/TOOLS

Python Java Scala SQL

TypeScript C++ Unix Linux

Matplotlib NumPy Apache POI

Google Colab Jupyter Notebooks

PERSONAL SUMMARY

- Curious self-starter looking for a fresh domain to dive into and master in a collaborative environment.
- Love snowboarding and being outdoors.
- Clairvoyant ability to recommend people music given some calibration data.
- Fervent Manchester United supporter.
- Love playing chess and poker (until I lose to a straight on the river).