

Matthew Frucht

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EDUCATION

Cornell University

B.S. in Information Science
Concentrations in Data Science and Behavioral Science
Dyson Business Minor
Expected Grad. May 2021
GPA: 3.624

SKILLS

Languages:

Python, Java, JavaScript,
PHP, HTML, CSS, SQL,
LabVIEW

Frameworks and Packages:

NumPy, Pandas, Flask,
Beautiful Soup, Socket.IO,
React.js, D3.js

Tools:

Usability/UX Testing, User Research
Figma, Sketch, Adobe Photoshop,
LaTeX

COURSEWORK

Human-Computer Interaction
Designing Tech for Social Impact
Data-Driven Web Apps
Design & Programming for the Web
Intro to Data Science
Networks
OOP & Data Structures
Intro CS Using Python
Teams and Tech
Language and Information

INTERESTS

Playing Drums/Guitar • Hiking
Watching Hockey • Cornell History

PROJECTS

Stretch Recommendation Search Engine

- Designed and built front-end of a web application allowing users to search for stretches based on body part.
- Implemented boolean search to find results and integrated cosine similarity to rank displayed results. Implemented Rocchio algorithm to increase relevancy of results.

Promoting Stress Management Through Social Interaction

- Prototyped an application designed to allow college students to meet new people and socialize face-to-face.
- Iterated through the human-centered design process to: formalize user needs; explore the solution space through affinity diagramming; create prototypes with Balsamiq and Figma.

Dynamically Visualizing World Happiness Data

- Created a dynamic data-driven visualization that displays data from World Happiness report on an interactive map using D3.js.

TEACHING

Dept. of CIS, Cornell University

August 2018 – present

Teaching Assistant, CS 1110 and CS 1133

Ithaca, NY

- Holding weekly office hours, facilitating hour-long lab sessions, and hosting one-on-one sessions.
- Grading projects and exams for a class of over 800 students learning Python and the fundamentals of programming.

RESEARCH

Fussell Lab, Cornell University

June 2019 – August 2019

Research Assistant

Ithaca, NY

- Developed the front-end portion of a web application designed for non-native English speakers that measures the politeness of text messages primarily using Flask and JavaScript.

ACTIVITIES

Delta Tau Delta Fraternity

- Vice President (Present)
- House Manager (2019)
- Philanthropy Chairman (2019)

Cornell University

- Orientation Leader (2018, 2019)