

DOMINIC DICARLO

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github.com/domdicarlo

EDUCATION

University of Chicago

- Computer Science Major
- Odyssey Scholar
- GPA: 3.55

Graduating Dec. 2020

WORK EXPERIENCE

UChicago Biological Sciences Division

Assistant Data Analyst

Chicago, IL

June 2019 - Present

- Scraping grant and faculty performance data from various university biology departments
- Implementing R scripts to automate repetitive tasks to increase productivity by 50%
- Creating informative graphs using R ggplot and Excel to improve University outcomes

Behavioral Biology Lab

Chicago, IL

Researcher

June 2019 - Oct. 2019

- Programmed analysis script in R to investigate data trends and create interesting visualizations
- Conducted experiments working with human subjects, through questionnaire and interview
- Designed data collecting procedures to test novel hypotheses concerning personality

Towle Neurology Lab

Chicago, IL

Programmer, Research Assistant

June 2018 - Oct. 2018

- Designed a C# program that operates on TCP stream of EEG data and performs signal analysis
- Analyzed EEG data collected from research subjects to understand language in the brain
- Created data visualizations to aid in presenting research in grant proposals

Upward Bound Tutoring Program

Chicago, IL

English, Math, and Science Tutor

June 2018 - Aug. 2018

- Instructed students in one-on-one lessons addressing their weaknesses
- Gave lectures on math lessons to a group of around 15 students
- Fostered students' interests and provided guidance on post high school plans

PROGRAMMING EXPERIENCE

Languages and Frameworks

- *Javascript* - Familiar with React and D3
- *Python* - Proficient in data analysis (Numpy, SKLearn, Keras), familiar with Django, basics of OOP
- *R* - Proficient in data analysis and visualization using dplyr and ggplot2
- *C#* - Familiar with Windows Forms and TCP networking

Development Tools

- *Git* - Proficient with handling local repositories and pushing to Github
- *Linux Operating System* - Familiar with Unix shell and running Linux on laptop
- *MySQL* - Basic understanding of concepts of relational databases and use in Django applications

Projects (see github.com/domdicarlo)

- *Dom DiCarlo Dot Com* - Making a Django website with MySQL backend to host blog, portfolio, and text game (domdicarlo.com)
- *She Votes Illinois* - Configuring a flask based blog connected to a MySQL database on a pro bono project
- *Noah Nomad Website* - Implemented a Javascript country plotter from scratch using geoJSON coordinates, that keeps a record of friend's traveling habits (Whereisnoah.com)
- *Indicators in Global Development* - Manipulated JSON data to accomplish intricate data visualization in D3 and React

INTERESTS/HOBBIES

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- Meditation; Philosophy Blogging; Psychology; Hindu Theology; Singing and Guitar; Video Game Creation; Martial Arts; Triathlon; Hiking; Traveling; Learning esoteric facts