Danielle **Damon**

Software Engineer · Masters Student

(775)686-0554 | danidamon98@gmail.com | danidamon.github.io | danidamon | danielle-damon

Education

The University of Chicago — *Chicago, IL*

MS in Computer Science, GPA 3.67 — *Sep. 2020 - June. 2021*

Courses: Advanced Programming in C, C++ for Advanced Programmers, Web Development, Computer Systems, Algorithms

The University of Chicago — *Chicago, IL*

BA in Biology, GPA 3.72 — *Sep. 2016 - June. 2020*

Courses: Computer Science I-II in Python, Quantitative Modeling

Work Experience

Lucy Labs CryptoFinance — *Remote, New York*

Software Engineering Intern — *Apr. 2020 - Sep 2020*

- Built a system to perform database updates and produce corresponding daily reports using Python, SQL, Bash, and Crontab.
- Automated generation of client statements and monthly reports on strategy performance using SQL and the ReportLab PDF Library in Python.
- Utilized websockets to perform data acquisition from cryptocurrency exchanges.

The University of Chicago, Biology Department — *Chicago, IL*

Ecology and Evolution Fellow — *Jun. 2019 - Mar. 2020*

- Designed and implemented experiments to investigate butterfly electroreception.
- Analyzed data using R.

Projects

N-Body Physics Simulation

`https://github.com/danidamon/nbody_problem`

- Modeled the movement of particles over time using recursive quad-trees and the Barnes-Hut approximation algorithm in C.
- Created an animation of the simulation using Python, NumPy, and Matplotlib.

Course Search Tool

Class Project

- Developed a course search engine in Python by scraping the course catalog and returning suggestions based on user input utilizing HTML, SQL, and the Django web framework

Skills

Proficient Languages	Python, C, SQL
Beginner Languages	HTML, CSS, C++
Frameworks	Pandas, NumPy
Other	Oral and written communication, multitasking, time management

Extracurricular Activity

UROCK Climbing Club — *Chicago, IL*

Event Coordinator — *Jan. 2017 - Jun. 2020*

Sports Finance Committee — *Chicago, IL*

Committee Member — *Sep. 2019 - Jun. 2020*