

Links:

<https://www.linkedin.com/in/mandyla808>

<https://github.com/mandyla808>

MANDY LA

(+1) 415-525-1734 | mla1@uchicago.edu

Education

Bachelor of Science in Computer Science, Bachelor of Science in Mathematics

GPA – 3.7

University of Chicago

Expected Graduation June 2021

- Relevant Coursework: Theory of Algorithms, Abstract Linear Algebra, Computer Programming, Computer Systems, Computer Architecture, Functional Programming, Cryptography, Human-Computer Interaction

Skills:

• Python • C / C++ • HTML • CSS • Elm ○ Git / SVN ○ UNIX / Linux ○ Docker Containers

Research

CS Research Intern

March 2020 – Present

Large-Scale Systems Group led by Professor Andrew Chien

Chicago, IL

- Collaborate with Cerebras Systems and Argonne National Lab to study the parallel architecture of the CS-1 chip
- Quickly learn 2 assembly-level languages unique to the CS-1 to write scalable stencil programs used for benchmarking
- Work around memory limitations by exploiting parallelism and high communication bandwidth for efficient computation

Undergraduate Research Program

Summer 2019

UChicago Math Department

Chicago, IL

- Wrote a 10-page paper on the Poincaré-Hopf Theorem and its applications to n-dimensional spheres
- Independently studied *Topology from a Differential Viewpoint* by John W. Milnor

Experience

Web Development Intern

Summer 2020

Code Your Dreams

Chicago, IL

- Remedied the problem of feeling disconnected during Work From Home by creating a Slack App that tracks team tasks
- Utilized Python, webhooks, and Slack APIs to build, test, and connect the app to a workspace of 70 people
- Increased traffic to company website by 300% by reimagining its look and layout after researching design schemes

Program Assistant

Summer 2019

Japanese Community Youth Council

San Francisco, CA

- Inputted and managed confidential data in Salesforce and CMS for 5 workforce programs, adding 2,000 new contacts
- Communicated efficiently with a team of 5 to coordinate and execute 4 program events for over 150 participants

Data Analytics Intern

Summer 2018

LifeMoves

Menlo Park, CA

- Used Excel and Raiser's Edge database to collect, organize, and clean over 3,500 donation records totaling \$8 million
- Visualized donation trends over the last 5 years and determined significant factors in large and repeat donations
- Presented a fiscal year fundraising report to the Chief Development Officer to advise future fundraising strategy

Course Assistant

October 2018 – March 2020

UChicago Math Department

Chicago, IL

- Explained high-level calculus concepts including delta-epsilon proofs in a clear, approachable way to freshman students
- Graded weekly assignments for 35 students in MATH150 in a fair manner and provide detailed feedback
- Assessed areas of difficulty of the course for students and relayed feedback to faculty to improve curriculum in the future

Projects

Pong Game (C++)

Personal Project

- Programmed a two-player pong game playable on Windows Console
- Optimized display method to reduced blinking visuals caused by continuous printing into console

Pictionary Game (Elm)

Class Project (Functional Programming)

- Coded a multi-player game of Pictionary that communicates data through JavaScript ports to Google Firebase
- Listened to mouse events and sent JSON encoded values to Firebase, allowing players to draw smoothly in real-time

Portfolio Website (HTML / CSS)

Personal Project

- Designed and coded a website from scratch, hosted by GitHub Pages at <https://mandyla808.github.io>