MANDY LA

Links:
https://www.linkedin.com/in/mandyla808
https://github.com/mandyla808

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Education

Bachelor of Science in Mathematics, Bachelor of Arts in Computer Science   **GPA – 3.72**
University of Chicago   Expected Graduation June 2021

- Relevant Coursework: Algorithms, Graph Theory, Computer Security, Cryptography, Computer Architecture, Human-Computer Interactions

Technical Skills

● **Python**   ● **C / C++**   ● **HTML**   ● **CSS**   ○ Git / SVN   ○ Linux Command Line   ○ Docker Containers

Experience

CS Research Intern   **March 2020 – Present**
Large-Scale Systems Group   Chicago, IL

- Quickly learn 2 assembly-level languages to write scalable stencil programs used for performance analysis
- Write, run, and debug code for 400,000 processors running in parallel with limited distributed memory
- Program network routing between processors on a 2D grid based on communication requirements of each program
- Produce marketable applications for new device by implementing popular computations that showcase machine capabilities

Software Engineering Intern   **October 2020 – April 2021**
Microchip Technologies   San Jose, CA

- Increased workflow efficiency for millions of customers by designing a bit stream parser that extracts and presents important information for FPGA programmers
- Ensured easy maintenance of company code base through thoughtful object-oriented program design
- Produced reliable programs by testing code frequently and thoroughly throughout development

Web Development Intern   **Summer 2020**
Code Your Dreams   Chicago, IL

- Improved communication company-wide during Work From Home by creating a Slack App that tracks team tasks
- Utilized Python 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

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

Projects

Audio-Only Pong Game (Python)   Class Project

- Reimagined the classic game of Pong to be accessible for blind individuals
- Recorded vocal pitch as input to control paddles and used pitch and volume to communicate ball location

Pictionary Game (Elm)   Class Project

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