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

MANDY LA

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Education

Bachelor of Science in Mathematics, Bachelor of Arts in Computer Science   **GPA – 3.72**
University of Chicago   Graduated June 2021
- Relevant Coursework: Algorithms, Graph Theory, Computer Security, Cryptography, Computer Architecture, Human-Computer Interactions

Technical Skills

● **Python**   ● **C / C++**   ● **Java**   ● **JavaScript**   ● **HTML / CSS**   ○ Git / SVN   ○ Django + React / REST Framework

Experience

Back End Developer   **July 2021** – **Present**
IBM
- Provide transparency to clients by developing a C++ program to retrieve storage device data and present it in an easily digestible format
- Cut workload of RAID analysis team by 50% by designing and implementing a GUI application in Java that allows for quick organization and manipulation of traces for easy analysis
- Improve fault-tolerance of IBMi systems by anticipating future growth and usage when updating existing code base

CS Research Intern   **March 2020** – **June 2021**
Large-Scale Systems Group
- Quickly learned 2 assembly-level languages to write scalable stencil programs used for performance analysis
- Wrote and debugged code for 400,000 processors running in parallel with limited distributed memory
- Programed network routing between processors on a 2D grid based on communication requirements of each program
- Produced marketable applications for new device by implementing popular computations that showcase machine capabilities

Software Engineering Intern   **October 2020** – **April 2021**
Microchip Technologies
- 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
- 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

Projects

Personal Finance Tracker (Python / Javascript / Django / React / REST Framework)   Personal Project
- Designed and implemented a web app that summarizes current financial standing using uploaded bank statements
- Full-stack development using Django and React

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