

ANDY WANG

itsandy@umich.edu • <https://www.linkedin.com/in/andy-wang-0b6358155/> • 646-944-3834

SKILLS

Programming: C | C++ | Python | JavaScript | HTML | CSS | Swift | SQL | React.js

Technologies/Tools: Git | Visual Studio Code | XCode | MySQL | Microsoft Office 365 | LaTeX

Languages: Fluency in English and Mandarin

EDUCATION

University of Michigan | Bachelor of Science in Computer Science

Aug 2020 - Expected May 2023

- Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Web Systems, User Interfaces
- In Progress: Operating Systems, Human Computer Interactions
- *Dean's List Honors*
- *Student Advisory Board*, First Generation Engineering Program

GPA: 3.6/4.0

CodePath | Programming Course Participant

May 2022 - August 2022

Boston University

Sep 2019 - May 2020

- *Executive Board*, Society of Asian Scientists and Engineers

GPA: 3.6/4.0

PROFESSIONAL EXPERIENCE

Capital One

Chicago, IL

Software Engineer Intern

June 2022 - August 2022

- Leveraged Python and AWS Lambda to automate transfer of card statement templates (used for 10,000+ customers) from S3 to Chariot, a proprietary Capital One storage system
- Automated upload of card embossing templates to Production S3 Storage with notifications using AWS Lambda with CloudWatch trigger
- Conducted dry run testing via Postman, along with unit testing in Jenkins OnePipeline
- Removed need for manual file deliveries and reduced manual work for developers, leading to 4 point savings per PI (program increment)

Jonajo Consulting

Ann Arbor, MI

Software Development Intern

July 2021 - December 2021

- Tested, debugged, and created image sharing and caching functionalities in FaceMask, an augmented reality application
- Developed functionalities with Swift, conducted system tests through iOS app development procedures such as TestFlight, and applied augmented reality technologies via Apple's ARKIT Framework
- Engaged in daily team design meetings and biweekly sprint reviews via Scrum, an Agile development methodology

Michigan Engineering Advising Center

Ann Arbor, MI

Transfer Student Leader

April 2021 - Present

- Mentoring and peer facilitating College of Engineering transfer students coming from a variety of states and countries in order to facilitate a smooth academic/social transition

PROJECT EXPERIENCE

Dynamic Instagram Clone Site | Python3 | HTML | CSS | React.js

March 2022

- Implemented a dynamic client side social media application loosely modeled after Instagram
- Utilized React in conjunction with asynchronous programming for improved performance and more responsive UX experience
- Added infinite scroll functionality to further simulate real world social media applications

Ask485 Search Engine | Python3 | HTML | CSS | SQLite

April 2022

- Implemented a basic search engine to return articles from a static database
- Utilized Madoop, a UMich version of Apache Hadoop, to perform map-reduce operations on text files containing article content, and returned relevant query results using term frequency inverse document frequency (tf-idf) calculations

LEADERSHIP EXPERIENCE

Sojourner Truth Cooperative House

Ann Arbor, MI

Work Manager

Dec 2020 - May 2021

- Coordinated, administered, and adapted a weekly house chore schedule to maintain cleanliness of an off-campus living community of 53 domestic, international undergraduate, master, and PhD students
- Presented recent initiatives and received feedback at monthly House Council Meetings; was only elected house officer to receive unanimous approval throughout the entirety of their 5-month term