

# ANDY WANG

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

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## EDUCATION

### University of Michigan | Bachelor of Science in Computer Science

August 2020 - May 2024

Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Computer Networks, Databases, Machine Learning, Web Systems, User Interfaces, Operating Systems, Human Computer Interactions

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## SKILLS

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

**Tools/Technologies:** Agile Development | Figma | GitHub | Visual Studio Code | Microsoft Office 365

**Spoken Languages:** Fluency in English and Mandarin, Proficiency in Fuzhounese

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## PROFESSIONAL EXPERIENCE

### Apple | Apple Pay

Austin, TX

Software Engineer Intern

May 2023 - August 2023

- Engineered Python Flask API server to automate data aggregation of test failures and impact, expediting manual data analysis
- Collaborated with senior engineers to integrate Flask server responses into a user-friendly interface extension for an internal work/bug tracking tool, enhancing test engineers' overall productivity
- Conducted user interviews to identify pain points and iteratively develop a refined user interface with high user satisfaction
- Strategically presented initiatives up 4 levels of management and generated buy-in for future expansion of service

### Amazon Web Services | DynamoDB

Seattle, WA

Software Development Intern

January 2023 - May 2023

- Rewrote an alarm management codebase (responsible for thousands of internal alarms) from Perl to Python, while migrating off deprecated APIs/resource for maintainability and support
- Implemented depth-first-search build order algorithm to reduce composite alarm build failures; reduced failure rates by 7x in worst case
- Developed a thread safe token bucket algorithm to allow for a multithreaded expansion of codebase

### Capital One

Chicago, IL

Software Engineer Intern

June 2022 - August 2022

- Automated transfer of card statement templates from Non-Production AWS S3 to Chariot using Python and AWS Lambda
- Automated upload of approved card templates to Production AWS S3 Storage using AWS Lambda with CloudWatch trigger
- Removed need for manual file deliveries, minimized required manual work for engineers, resulting in 4 hour savings per sprint

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## LEADERSHIP EXPERIENCE

### University of Michigan College of Engineering

Ann Arbor, MI

Teaching Assistant for EECS 280: Intro To Programming & Data Structures

August 2023- May 2024

- Organizing and instructing weekly labs and office hours to help students learn fundamental programming concepts and assisting with lecture, lab work, or project related inquiries
- Sharing personal experiences within the course to provide insight, connection, and encouragement for all students

### Michigan Engineering Advising Center

Ann Arbor, MI

Transfer Student Leader

April 2021 - December 2023

- Peer mentoring a diverse annual cohort of 20 computer science transfer students from the United States and abroad to provide a smooth academic/social transition at Michigan
- Organizing professional development events for 200+ engineering transfer students

### Sojourner Truth Cooperative House

Ann Arbor, MI

Work Manager

December 2020 - May 2021

- Coordinated and administered weekly house chore schedule for a democratic living community of 53 domestic and international undergraduate, master, and PhD students
- Resolved interpersonal/ scheduling conflicts, led regular chore inspections for quality assurance
- Communicated initiatives at monthly meetings; only house officer to receive unanimous approval ratings in 6-month term