

Education

University of Michigan, Ann Arbor, MI
B.S. in Computer Science, B.A. in German

Expected Graduation in December 2020
GPA: 3.3/4.0

Skills

C++, Python, HTML, CSS, Flask, C, PostgreSQL, Backend API, Data Structures, Algorithms, Discrete Mathematics, Statistics and Probability, User Experience, Human-centered Design, Teamwork

Awards

- Target Hackathon 2019 2nd Place, Minneapolis, MN
 - Created an algorithm for Target’s website to give users a recommended clothing size based on their known sizes from common competitor brands by leveraging existing web API view routes
- Piazza Tech Tour 2019 Top 10 Finalist, San Francisco, CA
 - Selected out of ten thousand applicants for the Piazza Tech Tour based on professional and academic achievements

Experience

- May 2018 – Present

Mcity Software Engineer and Technology Guide, Ann Arbor, MI
 - Assisted with the development and documentation of web services that support scheduling, membership information, and test facility automation API for the Autonomous/Connected Vehicle research group at the University of Michigan
 - Developed web services utilizing a Python stack (Flask/Redis/PostgreSQL) to automate complex tests and control of the 32-acre test facility
 - Enabled complex use cases of various IoT devices such as the Econolite traffic controllers, crosswalks, and controllable lighting
 - Designed data structures in PostgreSQL for storing configuration software
 - Used Swagger/Open API Specification standards to develop a web portal that allowed for easy discovery of web services, documentation, and testing of services by third parties interested in integrating with Mcity software.
 - Built backend software systems to retrieve, store, and archive weather data from local IoT devices and national sources of data
 - Participated in code reviews with team to give and receive feedback
- Oct. 2017 – Mar. 2018

MSU Federal Credit Union Mobile Interface Design Intern, East Lansing, MI
 - Delivered compelling, intuitive visual designs for websites, web-based applications, and mobile applications which were featured on all platforms
 - Designed high-level user flows, intuitive navigation systems, and detailed page schematics for mobile
 - Followed best coding practices for security, accessibility, and usability throughout all steps of the design process
- Sept. 2017 – Feb. 2018

Sponsored Fiat Chrysler Automobiles Project Team Lead, East Lansing, MI
 - Selected as team lead for a sponsored Fiat-Chrysler Automobiles project to uncover insights related to autonomous vehicle rear-end collision rates
 - Used human-centered design techniques to create a prototype to reduce the collision rate
 - Demonstrated prototype using a Chrysler Pacifica vehicle to FCA leadership and employees
- May 2018 – Dec. 2018

Design for America UMich President, Ann Arbor, MI
 - Led and participated in human-centered design and empathy based immersive research to drive social change with meetings ranging from 3-35 people to achieve organizational and individual goals
 - Delegated tasks to board members and ensured the organization maintained the project timeline
 - Maintained working relationships with one local nonprofit and two large-scale companies
- May 2017 – Present

Rewriting the Code Fellow, Ann Arbor, MI
 - Mentored two underclassmen students to aid them in setting and achieving professional and academic goals
 - Connected with a supportive network of over 2000 women across the United States studying computer science to create a safe, online environment to engage in professional development