

# Melanie Chio



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## EDUCATION

### **Stony Brook University – B.S. Computer Science**

August 2018 – Expected May 2022

- **Relevant Coursework:** Analysis of Algorithms, Data Structures, Foundations of Software Development, Programming Abstractions, Object Oriented Programming, Systems Fundamentals I
- **MOOC:** Introduction to Computer Science (CS50) – Harvard University, UX Design Masterclass
- Women in STEM & Engineering (WISE) Honors Program, Presidential Scholarship

## PROJECTS

### **Clarity – HackDuke: Ideate 2020**

July 2020

- Designed full flow, medium fidelity UI web application to make remote learning accessible for Autistic middle school students
- Researched target demographics to understand the shortcomings of existing technologies and need for product in market

### **Discover RTC: Data Processing Pipeline – Rewriting the Code**

June 2020 – August 2020

- Developed full-stack web app with 3 college students to automate the process of accessing and analyzing membership data
- Built 5 visualization models with Tableau and connected them to Google Sheets and Railway Importer to enable live updates
- Implemented data cleaning script using JavaScript and Airtable API on over 7,000 cells of data creating 78% more accurate visualizations and subsequently populating over 5,000 individual profile pages
- Created alternate vertical timeline UI component and ensured consistent styling across 5 pages using CSS and React
- Placed 3<sup>rd</sup> against 20 project teams after presenting to RTC, Morgan Stanley, Two Sigma, SAS, and Bank of America leadership

### **No Strings Attached**

August 2016

- Developed algorithm in C++ for Arduino Uno's to accept and transfer auditory inputs within a 300-foot radius
- Wired circuits on breadboards to enable buttons to activate communication between two Arduino Uno's
- Collaborated with two team members to present wireless tin can telephones to AIG and Girls Who Code leadership

**Other:** First Place – AT&T Women in Tech Hackathon 2016, Second Place – JPMorgan Youth in Tech Challenge 2016

## TECHNICAL EXPERIENCE

### **Stony Brook University – CSE220: Systems Fundamentals I: Teaching Assistant**

August 2020– Present

- Hosting 4 office hours per week to help 100+ students understand systems concepts and debug code in MIPS Assembly
- Executing exam review sessions with 7 other teaching assistants and monitoring discussion boards to answer 400+ questions

### **Blind Love Letters – Web Developer**

July 2020 – Present

- Developing web app with 3 developers ahead of beta launch using React, HTML, CSS, JavaScript, jQuery, Bootstrap, Firebase
- Collaborating with 3 UX designers to create novel UI components from high-fidelity prototypes for About and Profile pages
- Conducting user interviews with 7 UX researchers to build more intuitive elements and pinpoint bugs and inconsistencies

## LEADERSHIP POSITIONS

### **Theta Tau Professional Engineering Fraternity – Recruitment Chair**

April 2020 – December 2020

- Executed 2 weeks of virtual events reaching over 100 students to inform them of and persuade them to join the organization
- Designed custom t-shirts, profile picture frames, and 5 unique event banners to personalize the recruitment experience
- Organized different spreadsheets, event itineraries, and budgeting information using Notion workspace and Google Sheets

### **Odyssey – Content Creator**

December 2018 – March 2019

- Published weekly articles garnering over 15,000 total interactions on Asian cuisine, health & wellness, and lifestyle
- Optimized effectiveness of keyword tags to obtain better SEO and monitored traffic performance data to find best articles

## RELATED SKILLS

- **Programming Languages:** Java, HTML, CSS, JavaScript, C++, Python, C, MIPS Assembly
- **Other:** React, Express.js, SQL, Figma, Tableau, Office 365