

BRIAN WU

✉ briawu@umich.edu ☎ (734) 657 1905 🔗 [linkedin.com/in/briawu](https://www.linkedin.com/in/briawu) 🐙 github.com/briwu

Education

University of Michigan, Ann Arbor

Expected May 2025

B.S. Computer Science

GPA 3.8

• University Honors, Dean's Honor List

Experience

Bank of New York Mellon

New York, NY

Software Engineer Intern

Jun 2023 – Aug 2023

- Built deal lifecycle capabilities with Java/Spring Boot and integrated deal attributes with Oracle Billing Platform for fee schedule and invoice account setup, maintenance, and termination
- Generated entity models to filter metrics received from deal document extraction and captured JSON data ingested from AI process to implement fee schedule migration between databases

Danlaw, Inc.

Novi, MI

Software Engineer Intern

Jun 2022 – Aug 2022

- Optimized OBD protocol detection functionality in 3.4 and 3.8 generation dataloggers using Embedded C, increasing connection efficiency with VPW, PWM, and CAN11 vehicles **by ~20%**
- Implemented and optimized device LED display with Embedded C software to show proper trip, protocol, and GPS detection status for 3.4 GIGA generation dataloggers

Michigan Investment Group

Ann Arbor, MI

Quantitative Analyst, Momentum Team

Jan 2022 – Present

- Incorporated 10+ momentum indicators into Python trading prediction algorithm used to determine ideal entry and exit points of chosen stock tickers, **increasing algorithm accuracy to >65%**
- Built and deployed full-stack platform using an Angular framework and AWS-Cloud backend for showcasing and utilizing algorithms created by teams within the organization
- Organized outreach events and technical education meetings, **increasing applications by ~50%**

Bai Lab, Indiana State University

Terre Haute, IN

Software Research Intern

Jun 2019 – Jun 2020

- Designed custom Python script used to retrieve and analyze variant and gene data from dbMTS database, **identifying 370+ cancer-related variants** to be used for cancer research
- Optimized data annotation and filtration algorithm, **increasing algorithm efficiency by ~40%**
- Co-authored paper published in *Genes* 2020 and presented abstract at ICIBM 2020 conference

Projects

Fitness App

Built cross-platform React fitness guidance app that offers 1300+ categorized exercises and guides using Material UI and ExerciseDB/YouTube Search APIs (JS)

Trading Bot

Programmed live trading bot that scans market and downloads prices through Oanda API. Uses various indicators such as SMA, MACD, and RSI (Python)

Instagram Clone

Implemented an Instagram clone with server-side dynamic pages. Stored user/post data with SQLite and rendered HTML with Flask web framework.

Skills

Languages: C++, C, Java, Python, JavaScript, MATLAB, SQL, R, HTML, CSS

Technologies: Git, React, Angular, Jira, REST API, Node.js, Spring, Flask

Coursework: Data Structures & Algorithms, Computer Organization, Web Design & Development, Web Systems, Computer Vision, Linear Algebra, Probability & Statistics