Justin “Avery” Chan

(734) 418 3290 | justinaverychan@gmail.com | GitHub: Avery2

EXPERIENCE

Halo Science Chicago, IL
Developer Intern May 2020 – August 2020

- Worked on the development team to implement general features and fix bugs.
- Setup the Storybook and Chromatic software tools to help frontend development and to encourage adherence to component-driven design.
- Started development on a new consolidated component library.
- Wrote python scripts to aid our marketing team.

MAterials Simulation Toolkit Machine Learning (MAST-ML) Madison, WI
Member June 2020 – Present

- Working under supervision of Dr. Ryan Jacobs from the University of Wisconsin-Madison Computational Materials Group.
- Developing the MAST-ML tool, an open-source Python package, by debugging, code refactoring, and building additional functionality such as removal of data twins to increase model performance and integration of the gplearn python library.

EDUCATION

University of Wisconsin-Madison Madison, WI
B.S. Major in Computer Science | *B.S. Major in Data Science* August 2019 – May 2022 (expected)
Major GPA: 3.93 | Cumulative GPA 3.71

- *Relevant Coursework:* Advanced Programming in Java; Discrete Mathematics; Computer Engineering; Applied Statistics for Engineers; Introduction to Artificial Intelligence; Machine Organization and Programming; Introduction to Operating Systems; Introduction to Algorithms; Introduction to Data Modeling
- *Current Coursework:* Software Engineering; Introduction to Human-Computer Interaction; Introduction to Computer Networks; Genetics in the News; Introduction to Data Modeling II

SKILLS

Programming: Java, Python, JavaScript, HTML, CSS, C, R

Technologies: React, Node.js, Jekyll, Git (CLI), Storybook/Chromatic

Personal Tools: iTerm2, VS Code, Notion, Things3

PROJECTS

Check these out on my GitHub!

Lightbulb: Working on a team to create a collaboration tool to connect people looking to work on projects. Competed in 2021 Transcend Competition. **(React, Node.js, Express)**

Toggl Analysis: Analyzing data from the Toggl app that logged my hours worked for the last year. General analysis and data cleaning with R and using Python to harness machine learning classification. **(R, Python)**

Personal Website: Setting up a personal website using Jekyll, a tool to build lightweight static web pages. **(Jekyll)**
Steam Hours: Used python to interact with the Steam API and R to analyze data. **(Python, R)**
Blindwrite Clone: Clone of the online web app “Blindwrite” **(plain HTML, CSS, JavaScript)**
Handwritten Digit Classifier: A Simple Neural Network without libraries. **(Java)**

EXTRACURRICULAR ACTIVITIES

Clubs

- Co-Leader, FoodShed (Coding for Good): Creating an app for the campus club FoodShed that collects free (surplus) food. Built with Ionic and Angular.
- Member, Causal Architecture (AI Club): Theoretical approach of natural and artificial intelligence through read research papers.