**Justin “Avery” Chan**

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EXPERIENCE

**MAterials Simulation Toolkit Machine Learning (MAST-ML)** Madison**,** WI

*Member* June 2020 – Present

MAST-ML is an open-source machine learning Python package with a focus on the material sciences. Contributing to the tool by implementing various functionality proposed by supervisor Dr. Ryan Jacobs:

* Implemented data-twin removal to help improve model performance (**Python**).
* Implemented support for various graphs for classification models (**Python**).

**Halo Science** Chicago**,** IL

*Developer Intern* May 2021 – August 2021

Halo is a startup focused on pairing researchers to various funding sources. Contributed by implementing features and designs at the direction of the CEO and UX designer and fixing bugs. Other highlights below:

* Setup the Storybook and Chromatic software tools to help frontend development and to encourage adherence to component-driven design (**Storybook**, **Chromatic**).
* Developed a new consolidated component library to reduce redundancy of code (**React**, **styled-components**).
* Wrote web scraping python scripts to aid marketing team (**Python**).

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: 3.95 | Cumulative GPA 3.71

* *Relevant Completed 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

PROJECTS

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

**Personal Website:** Set up a personal website using Jekyll, a tool to build lightweight static web pages. Created python script to scrape GitHub information **(Jekyll, Liquid, Python).**

**Blindwrite Clone:** Created an online web app that allows users to blur their writing to avoid constant self-editing and hopefully avoid writers block **(plain HTML, CSS, JavaScript).**

**Steam Hours:** Created scripts to interact with the Steam API and analyzed data with R **(Python, R).**

**Handwritten Digit Classifier:** Created a neural network from scratch without libraries to learn how neural networks work **(Java).**

Projects were selected to show a variety of project topics and programming languages. Check out more on my [website](https://www.averychan.site/projects/) or [GitHub](https://github.com/Avery2).

EXTRACURRICULAR ACTIVITIES

* **Co-Leader, FoodShed (Coding for Good):** Created an app for the campus club FoodShed that collects free (surplus) food. Built with Ionic and Angular (**Typescript, Angular, Ionic**).
* **Member, Causal Architecture (AI Club):** Learned a theoretical approach of natural and artificial intelligence by reading research papers.
* **Member, Coding for Good Website:** Contribute to the website for the Coding for Good club (**EJS, JavaScript, HTML**).