

# Justin “Avery” Chan

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## 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.