Justin “Avery” Chan

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EXPERIENCE

Halo Science Chicago, IL
Developer Intern May 2021 – August 2021

- 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. (**Storybook**, **Chromatic**)
- Started development on a new consolidated component library. (**React**, **styled-components**)
- Wrote python scripts to aid our marketing team. (**Python**)

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

- Supervision by 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 data-twin removal and support for graphs for classification models. (**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

Personal Tools: iTerm2, VS Code, Notion, Things3, Plain Markdown

PROJECTS

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)**

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

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

- **Co-Leader, FoodShed (Coding for Good):** Creating 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):** Theoretical approach of natural and artificial intelligence through read research papers.
- **Member, Coding for Good Website:** Create the website for the Coding for Good club. (**EJS, JavaScript, HTML**)