Justin 'Avery' Chan
Second-Year Undergraduate
Bachelor of Science - Computer Science
University of Wisconsin-Madison

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EDUCATION

University of Wisconsin-Madison | Madison, WI
Sept 2019 - Present

BS Computer Science, BS Data Science

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

PROFESSIONAL EXPERIENCE

Team Member, University Housing | Madison, WI
Sep 2018 - Dec 2018

Member, MAterials Simulation Toolkit Machine Learning | Madison, WI
Feb 2020 - Present

Working under 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. (**Python**)

Software Intern, Halo Science | Chicago, IL
May 2021 - Aug 2021

Halo Science is a startup that aims to connect scientists with companies for research collaborations and funding opportunities. Working alongside the development team mainly concerning the frontend. I also had the opportunity to set up Storybook and Chromatic developer tools for our team. Lastly, I was able to write Python scripts to help automate some work for the marketing team. (**React, React-Redux, Python**)

SKILLS & LANGUAGES

Programming Languages: Java, Python, HTML, CSS, Javascript, C, R
Software: Git (CLI), React, Jekyll
Personal Tools: iTerm2, VS Code, Notion, Things3

PERSONAL PROJECTS

Check these out on my GitHub!

Current

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

Toggl Analysis: Analysing 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)**
2021

Personal Website: Setting up a personal website using **Jekyll**, a tool to build lightweight static web pages. (**Jekyll)**
2021

Completed

Handwritten Digit Classifier: A Simple Neural Network without libraries. (**Java**) — Summer 2019
Steam Hours: Used python to interact with the Steam API and R to analyze data. (**Python, R)** — 2021
Blindwrite Clone: Clone of the online web app "Blindwrite" (plain **HTML**, **CSS**, **Javascript**) — 2019

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**. — Fall 2019 - Jun 2020

Member, Causal Architecture (**AI Club**): Theoretical approach of natural and artificial intelligence through read research papers. — Fall 2019

Coding Competitions

2018 - Present (Intermittently)

UW-Madison's International Collegiate Programming Contest (ICOC) team, MadHacks, SVSU Programming Competition