

Justin "Avery" Chan

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EXPERIENCE

Amplitude

Product Engineer II

San Francisco, CA

May 2022 – Present

Currently working as Product Engineer II, having progressed from Intern to Product Engineer I to Product Engineer II since joining immediately after graduation.

Halo Science

Developer Intern

Chicago, IL

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 or UX designer and fixing bugs. Other highlights:

- Setup tools to increase developer productivity and adherence to component-driven development (Storybook, Chromatic).
- Developed a new component library to reduce redundancy of code (React, styled-components).
- Wrote web scraping Python scripts to aid the marketing team (Python).

Materials Simulation Toolkit Machine Learning (MAST-ML)

Member

Madison, WI

June 2020 – December 2021

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. Tasks include:

- Data-twin removal to help improve model performance (Python).
- Graphs to summarize classification models (Python).
- Exploration of gp-learn library and other feature generation methods (Python).

EDUCATION

University of Wisconsin-Madison

B.S. Major in Computer Science | B.S. Major in Data Science

Madison, WI

August 2019 – May 2022

Major GPA: 3.95 | Cumulative GPA: 3.75 | Dean's List 3 semesters

- **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; Software Engineering; Introduction to Human-Computer Interaction; Introduction to Computer Networks; Introduction to Data Modeling II; Introduction to Bioinformatics
- **Additional Completed Coursework:** Matrix Methods in Machine Learning; Data Science Programming II; Computer Graphics; Statistical Experimental Design

SKILLS AND INTERESTS

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

Technologies: React, Node.js, Jekyll, Git (CLI), Storybook & Chromatic, LaTeX, Tableau

PROJECTS

Projects selected to show a variety of project topics and programming languages. Check out more on my website or GitHub.

- **Personal Website:** Set up my website using Jekyll and wrote Python scripts to scrape GitHub (Jekyll, Liquid, Python).
- **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 to learn how neural networks work (Java).
- **Just-Read-Less-Features:** Forked a chrome extension that standardizes the styling of online articles for daily use (JavaScript).

- **Work Visualization:** Visualized a year of self-reported data on where I spent my time working (R, D3.js).
- **Lightbulb:** Created a tool to connect people of different talents looking to work on projects. Competed in 2021 Transcend Competition (React, Node.js, Express).
- **Antibiotic Visualization:** Made a static visualization that effectively communicates antibiotics data. (R, Tableau, Figma).