

# Jasmine Hou

📧 jsnmhou | ✉ jsnmhou@gmail.com | 🌐 jsnmhou | </> jasminehou.dev

## EDUCATION

---

### University of Michigan, Ann Arbor

Aug. 2022 – May 2025

*B.S. in Computer Science*

*GPA: 4.00/4.00*

- Relevant Coursework: Data Structures & Algorithms, Microarchitecture, Discrete Mathematics, Linear Algebra

## EXPERIENCE

---

### Software Engineer Intern

Apr. 2023 – June 2023

*TenaFe, Inc.*

*Campbell, CA*

- Increased routine maintenance efficiency by ~300% through automating component testing tasks using Django and Python.
- Built a dashboard visualizing >1,000 Jenkins pipeline metrics using React and Tailwind CSS. Leveraged information gathered from graph trends to aid informed corporate decisions mitigating component failure.
- Led strategic overhaul of the company website to adapt a modernized aesthetic, integrating improved geolocation-specific features that resulted in increased regional engagement.

### Team Member

Sep. 2022 – Apr. 2023

*Michigan Data Science Team*

*Ann Arbor, MI*

- Utilized PyTorch to train and validate a seq2seq German-to-English translation model.
- Tokenized raw sentences into tensors for NLP modeling with Spacy.

### Chapter President

Aug. 2020 – June 2022

*Distributive Education Clubs of America (DECA)*

*San Jose, CA*

- Strategically project-managed 180+ competitors and 20+ faculty members/chaperones to coordinate chapter success at large-scale business conferences (>22,000 attendees), resulting in ~40% of competitors placing in top 20 of respective events.
- Facilitated the chapter mentoring system which helped newer members learn extensive business curriculum by providing catered resources and role-play opportunities; achieved ~88% member satisfaction rate.

## PROJECTS & OPEN SOURCE

---

### jasminehou.dev | *Next.js, TypeScript, Tailwind CSS*

May 2023

- Built and launched a personal website using Next.js, Tailwind CSS, and Netlify.
- Leveraged Spotify's API to showcase real-time currently listening activity as well as top track metrics.

### youtube-dl | *Python*

Apr. 2023

- Contributed video extractor feature to open-source project youtube-dl (>122k stars on GitHub) enabling downloads of U.S. Senate hearings and recordings.

### Mental Health/COVID-19 Data Analysis | *Python, NumPy, Scikit-Learn, Pandas, Seaborn, SciPy*

Aug. 2021

- Investigated effects of COVID-19 on mental health indicators with a dataset of >2,600 Argentine college students.
- Built data visualizations using Seaborn & performed statistical significance testing using SciPy (t-test, ANOVA).

### Criminal Justice & Racial Bias Modeling | *Python, Pandas, NumPy, Scikit-Learn, Matplotlib*

Oct. 2021

- Trained ML models on the COMPAS dataset (e.g. KNN, Random Forest, SVM).
- Analyzed demographic bias in dataset using quantifiable metrics (e.g. group fairness, calibration).

## TECHNICAL SKILLS

---

**Languages:** Java, Python, C++, JavaScript, TypeScript, HTML/CSS

**Frameworks / Developer Tools:** Django, React, Git, Next.js, Tailwind CSS, Visual Studio Code

**Libraries:** pandas, NumPy, Matplotlib, SciPy, bs4