Jasmine Hou

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EDUCATION

University of Michigan, Ann Arbor

B.S. in Computer Science **Aug 2022 — May 2025**
- Academics: *GPA: 4.0*; William J. Branstrom Freshman Prize
- Relevant Coursework: Data Structures & Algorithms, Microarchitecture, Discrete Mathematics, Linear Algebra

EXPERIENCE

Tenafe **Apr 2023 — June 2023**

Software Engineer Intern *Campbell, CA*
- Automated component testing tasks using Django and Python; increased routine maintenance efficiency by 300%.
- Built a dashboard visualizing >1,000 Jenkins pipeline metrics using React and Tailwind CSS.
- Led strategic overhaul of the company website with improved geolocation specific features.

Michigan Data Science Team **Sep 2022 — Apr 2023**

Team Member *Ann Arbor, MI*
- Utilized PyTorch to train/validate a seq2seq German-to-English translation model.
- Tokenized raw sentences into tensors for NLP modeling with Spacy.

Distributive Education Clubs of America (DECA) **Aug 2020 — June 2022**

President *San Jose, CA*
- Led 300+ member chapter through virtual format and regulation changes.
- Headed logistical decisions to coordinate chapter success at large-scale business conferences (>22,000 attendees).
- Executed adaptive member recruiting by expanding online educational opportunities.

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 >2.6k 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).

HONORS

- USA Computing Olympiad (USACO) Gold Division **2021**
- NCWIT Aspirations in Computing Award: Bay Area Affiliate **2021**
- Presidential Volunteer Service Award Gold **2021**

SKILLS

Languages: Java, Python, C++, JavaScript, TypeScript, HTML/CSS
Frameworks / Developer Tools: Django, React, Git, Next.js, Tailwind CSS, Gatsby, Visual Studio Code, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib, SciPy, bs4