Jasmine Hou

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EDUCATION

University of Michigan, Ann Arbor

Bachelor of Science in Computer Science — *Expected Graduation: April 2025*

- Academics: *GPA: 4.0*; Recipient of William J. Branstrom Freshman Prize
- Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Linear Algebra

EXPERIENCE

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 with attention
- Numericalized raw sentences into tensors for NLP modeling through tokenization with Spacy

Distributive Education Clubs of America (DECA) — **Aug 2018 — June 2022**

President (2020-21, 2021-22), Secretary (2019-20) — *San Jose, CA*

- Led a 9-member officer team in overseeing all aspects of a 300+ member chapter
- Headed all organizational, promotional, and competitive operations of the club

CodeDay Bay Area (Hackathon) — **Nov 2019 — Feb 2021**

Logistics Coordinator (2019-20), West Coast Marketing Team (2020-21) — *San Jose, CA*

- Defined the responsibilities and oversaw the execution of the student mentorship program
- Collaborated with 20+ high schools to coordinate hackathon logistics & sponsor student productivity/education on Virtual CodeDay Marketing Team

Silicon Valley Youth — **Jan 2020 — Feb 2021**

Teacher of Intro to Java (2020, 2021), Teacher of Intermediate Java (2020) — *San Jose, CA*

- Taught fundamental Java concepts to 15-20 middle school students per class
- Prepared & refined curriculum, boosted student engagement, and created exam material as an instructor
- Raised $9000 in donations to underfunded school districts

Brighter Future Learning Center — **Nov 2021 — Feb 2022**

Student Tutor — *San Jose, CA*

- Mentored 10+ students in topics ranging from pre-algebra to precalculus

PROJECTS

Mental Health/COVID-19 Data Analysis | *Python, NumPy, Scikit-Learn, Pandas, Seaborn, SciPy* — **Aug. 2021**

- Investigated effects of COVID-19 on mental health indicators w/ dataset of >2,600 Argentine college students
- Utilized Seaborn & SciPy to visually display and confirm statistical significance of results (t-tests/ANOVA tests)

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 the dataset using quantifiable metrics (e.g. group fairness, calibration)

HONORS

- USA Computing Olympiad Gold Division
- Presidential Volunteer Service Award Gold/Silver (2020/2021)
- NCWIT Aspirations in Computing Award: Bay Area Affiliate – Honorable Mention

SKILLS

Languages: Java, Python, C++, Javascript, HTML/CSS

Developer Tools: Git, Visual Studio Code, Pycharm, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib, SciPy