

# JESS FAN

Passionate Software Engineer with background in full software development lifecycle  
Fluent in Python, C++/C#, SQL, TensorFlow and PyTorch  
Quick learner and team player focused on achieving objectives with speed and accuracy


## EDUCATION


**B.S. Computer Science**  
University of California  
Santa Cruz - June 2022

**A.S. Computer Programming**  
Gavilan College  
Gilroy - June 2020

## CONTACT

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 https://jfan.ml

## EXPERIENCE

**Principal Software Engineer** (October 2019 – Present)  
RiceTeaCatPanda – San Francisco, CA

- Led the design of a machine-learning focused CTF (Capture the Flag) competition.
- Created a high traffic website, media distribution, API schema and endpoints, analytics, and visualization with Docker-based deployment automation.
- Supervised a team of 20+ developers and business analysts engaged in Project Sinensis with worldwide adoption and participations.

**Skills:** Python, Numpy, Skit-learn, Tensorflow, Go, Restful APIs, NLP, etc.

**Data Science Intern** (June 2020 – October 2020)  
Bioclinica – Newark, NJ

- Provided comprehensive analysis and developed fully automated data cleaning solutions to consolidate, classify and identify unique hospitals and clinical sites around the world.
- Successfully integrated with ETL packages into Oracle data warehouse (10TB+).
- Participated in data cleaning and keyword extractions from physician profiles.
- Developed a new website and data collection service for physicians worldwide.
- Created data visualization graphics, translating complex data sets into comprehensive visual representations.

**Skills:** Python, AWS, SQL, React, Restful APIs, Power BI, Oracle

**Software Engineer** (September 2018 – Present)  
Bay Area Community College Consortium – San Jose, CA

- Designed and hosted a scoreboard for students to input competition and practice scores.
- Implemented scoring automation and balancing systems.
- Taught students Python and Cybersecurity programming through fun and creative games.

**Skills:** Python, React, JavaScript, HTML, CSS, PostgreSQL, DigitalOcean

**Web Developer** (June 2018 – October 2019)  
4CE4 – San Jose, CA

- Designed the homepage for the company.
- Managed and created backend infrastructure with hosting web services.

**Skills:** WordPress, Cloudflare, HTML, CSS, Javascript

## SKILLS

Python	10/10
HTML, JS, CSS	10/10
C++ / C# / C	9/10
Git / GitHub	9/10
PyTorch / Tensorflow	8/10
Power BI	8/10
Redis	8/10
SQL	8/10
Heroku	7/10
AWS / GCP / Azure	7/10
Node.JS	7/10
React	7/10

## PROJECTS

**Jade AI** (January 2018 – Present)  
Creating an interactive AI chatbot

- Designed algorithms based on modern AI architectures in NLP
- Created a backend environment to run both a Flask-based website and Discord bot
- Designed, gathered data, and trained a model using Google's T5 algorithm
- Constructed an API for the service, hosted on GCP and Heroku.
- Used Supabase's realtime PostgreSQL database and Redis to create fast and efficient data analytics.

**NLP Data Repository** (January 2021 – Present)

Scraping and normalizing data for various applications in NLP

- Collected a 400 million-entry dataset of multi-turn user conversations hosted on Kaggle
- Utilized regex and scikit-learn to clean all entries of toxic text, non-language sentences, and more to normalize the dataset.

**Metastyle** (June 2018 – August 2018)

Metalearning Applied to Neural Style

- Contributed to the code base for Metastyle, developed by Dr. Chi Zhang, on GitHub
- Altered the feed-forward style-free representation algorithm to better pronounce style images' features while using metalearning techniques to speed up training time