Bridget Yang

CNS @ Caltech & SWE

Email: bridgetcyang@gmail.com
Phone Number: 323-947-4392

EDUCATION

California Institute of Technology (2020 - 2024)

Major: Computation and Neural Systems (GPA: 4.0)

Activities:

- Product @ Caltech (Product Management Club) Co-Founder/Co-President
- BEM 106 (Data Science in Economics) & Ph2a (Waves, Quantum Mechanics, and Statistical Physics) Teaching Assistant
- Health Advocate (certified EMR, provide medical treatment to Caltech community members)
- Equity + Title IX Advocate
- Dean's Tutor (machine learning, organic chemistry, computer programming, & complex analysis)

Accomplishments:

- Scoliosis research published in the "Journal of Investigative Medicine" (2020)
- Wrote/published children's book entitled "Ally's Scoliosis Adventure" (2019)

PROFESSIONAL SKILLS

- Programming Languages: **Python, Go, R, Java, C, HTML, CSS, JavaScript, SQL, Angular**
- Tools/Technologies: AWS Solutions Architect, Microsoft Office, Tableau, Matlab, Apache Spark, Splunk, Jenkins, NewRelic

PROJECTS

Closetly

- Created a **SQL** database and **Python**-based UI that allows users to manage their own closets, share/borrow clothing from other users, browse different store inventories, and style different outfits

Studrip

- An e-commerce store where college students can resell their clothing items
- Built my own **API**

Crossy Turtle

- A game (coded entirely in **C**) where the player has to move a turtle as far as possible, dodging all obstacles and collecting powerups along the way

S(HE)TEM

- A web application (**HTML/CSS/JavaScript**) that aims to make STEM resources more accessible to young girls
- Created STEM lesson plans and conducted interviews with female leaders in the STEM industry

WORK EXPERIENCE

Capital One

Software Engineer (August 2024 - Current)

- Built APIs (**Go, AWS**) for sending millions of Capital One account holders' data to financial aggregators. Also, created the UI (**Angular, HTML, CSS**) for users to consent to this data sharing.

Software Engineering Intern (June 2023 - August 2023)

- Created and tested a **Python** end-to-end application using **Apache Spark** and **REST API's** to speed up data quality checking process from 8 hours to 1 minute

Yurts AI

Software Engineering/VC Intern (Jun 2022 - Sept 2022)

- Optimized **NLP ML** models and created two products: a machine learning model querier and text generator using **HTML**, **CSS**, & **JavaScript** for the front-end and **Python** for the back-end
- Conducted **market research** to help determine the pricing of the products and their market fit

California Institute of Technology (Caltech)

Research Intern (Oct 2021 - Mar 2022)

- Built convolutional neural networks (**CNNs**) using **PyTorch** for image segmentation and bioimaging validation in Professor Lu Wei's lab

Virtu Financial

Quantitative Trading Wintern (January 2022)

- Developed a new strategy to trade gas and oil stocks using machine learning (**Python**), market research, and data analysis (**Tableau**)
- Team won 1st place for this project

California Institute of Technology (Caltech)

Summer Undergraduate Research Fellow (Jun 2021 - Sept 2021)

- Engineered the sensing/signaling subsystem for the Synthetic Cell Project under Professor Richard Murray
- Coded chemical reaction network models using **Python/Jupyter Notebook**; designed genetic circuits using Geneious software; performed Golden Gate Assembly, miniprep, TX-TL, PCR, & Gibson Assembly