Yuling (Aileen) Zhang

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Education

California Institute of Technology
B.S. in Computer Science — GPA 3.7

September 2017 — June 2023

Technical Work Experience

Software Developer
Western Asset Management Company

October 2022 — Present

— Extended functionality and redesigned frontend of business-critical trade risk analysis app
— Developed Angular frontend of web utility to view live trade data obtained via WebSockets

Computer Science Intern
Western Asset Management Company

June 2022 — August 2022

— Designed and implemented versatile VBA tool to access, display, correct, and audit SQL databases
— Thoroughly documented tool functionality for future use and modification by other developers

Research & Education Work Experience

Rise Tutor
Rise Program, Caltech Y

October 2017 — June 2023

— Conducted one-on-one tutoring sessions for high school and undergraduate students in STEM subjects, including calculus, geometry, trigonometry, biology, physics, and other subjects as needed

Computer Science Tutor
Juni Learning

May 2021 — September 2021

— Executed advanced computer science lesson plans ranging from basic data structures to applied programming over Zoom for students ages 8–18 while adapting to student needs and interests

Kiyo and Eiko Tomiyasu SURF Intern
Dr. Zhongwen Zhan, Caltech

June 2019 — September 2019

— Conducted shaking experiments to identify building resonant frequencies and image local subsurface

SURF Intern
Dr. Lynne Hillenbrand, Caltech

June 2018 — September 2018

— Improved iPython analysis codebase to infer characteristics of protostars from Keck HIRES spectra

Relevant Coursework

Algorithms	Decidability and Tractability	Functional Programming
Learning Systems	Distributed Computing	Web Development
Relational Databases	Signal-Processing Systems and Transforms	Compilers

Technical Skills

Languages

●●○ C	●●● Python	●●○ Java	●●● HTML	●●● CSS	●●○ JavaScript
●●● SQL	●●○ Haskell	●●● OCaml	●○○ Rust	●●● VBA	●●○ Mandarin Chinese

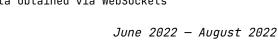**Software & Tools**

LaTeX	Mathematica	Microsoft Office Suite
MATLAB	SolidWorks	Adobe Creative Suite

Other Skills

Technical writing   Scientific communication   Digital illustration & design

Interests

Roller skating   Traditional & digital painting   Social dancing   Creative writing   D&D