

# Jennifer Liang

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## Education

### Harvard University

Cambridge, MA

A.B. APPLIED MATHEMATICS AND COMPUTER SCIENCE, GPA: 4.0/4.0

May 2023

- **Activities:** Women in Computer Science, Chinatown Citizenship, Harvard Crimson
- **Relevant courses:** Data Structures and Algorithms, Theoretical Computer Science, Linear Algebra and Real Analysis, Multivariable Calculus, Functional Programming, Probability, Statistics, Machine Learning, Social Computational Choice, Optimization
- **Awards:** Detur Book Prize, John Harvard Scholar

## Experience

### Two Sigma

New York City, NY

SOFTWARE ENGINEER INTERN

May 2022 - Aug 2021

- Designed and developed interactive web app used by modellers for curve visualization, instrument pricing, and risk analysis.
- Built RESTful API service to construct yield curves and calculate key rate risk of interest rate swaps, optimized with parallelization.
- Corresponded with stakeholders to create proof of concept and deliver a final product that was deployed to production.

### Bloomberg LP

New York City, NY

SOFTWARE ENGINEER INTERN

May 2021 - July 2021

- Developed features with Angular on the Enterprise Console, a client-facing web app used to configure and monitor financial data.
- Implemented new API requests in Python services to enhance validation of 80,000 FIX connections on the Bloomberg terminal.
- Collaborated with sibling engineering teams to debug internal applications using proprietary UI TypeScript tool and SQL.

### Mobile Innovations

Toronto, ON

SOFTWARE ENGINEERING INTERN

May 2020 - Jan. 2021

- Deployed client-side RESTful API for client delivery courier, implementing API requests for adding orders to the database.
- Set up web application for testing API requests in CURL, Node, JavaScript, and Python in order to improve user experience.

## Leadership & Projects

### Arctic Reading Circle

Toronto, ON

FOUNDER

Jul. 2020 - Present

- Founded [Canadian non-profit organization](#) that provides online tools to help students foster a passion for reading and learning.
- Organize read alouds and writing workshops to instill confidence and leadership skills in children from newcomer communities.
- Supervise board of directors and coordinate with outreach team to partner with other community-oriented organizations such as Afghan Women's Organization and TDSB Newcomer Services.

### Harvard Women in CS

Cambridge, MA

GIRLS WHO CODE CO-DIRECTOR

Apr. 2020 - Apr. 2022

- Lead original coding projects and run weekly workshops with 30 students in Scratch, Java, Python, and HTML, etc.
- Facilitate WiCS Pen Pal Program which connects high school girls to CS students at Harvard to seek mentorship and guidance.

### Online Subletting Platform

[ONLINE-SUBLETTING-PLATFORM.HEROKUAPP.COM](https://online-subletting-platform.herokuapp.com)

June 2020

- Online platform for users to browse and post listings of housing for students or interns, with forward geocoding and Mapbox API.
- Designed MongoDB database to store user and housing information and user authentication using bcrypt, nodemailer, and JWT.

## Achievements

2018 **European Girls' Mathematical Olympiad**, Bronze Medal

Florence, Italy

2018 **Asian Pacific Math Olympiads**, Selected Contestant, Top 25 in Canada

Canada

2017 **Canadian Open Mathematics Challenge**, Provincial Bronze Award

Ontario

## Skills

**Technical Language** Java, C/C++, Python, JavaScript, TypeScript, HTML, CSS, Node, React, SQL, OCaml, Swift, Kotlin, Angular

**Language** Native English, Conversational Mandarin and French

**Interests** Fencing, Reading, Books Blogging, Skiing, Canada Learning Code, Zombies Run, PokemonGo