

Jenny Ma

CONTACT

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INTERESTS

Computational design, HCI, vector graphics, animation

EDUCATION

*September 2023 to
current (expected
graduation 2025)*

Columbia University

MSCS in Computer Science (prospective thesis track in computer graphics)

*September 2017 to May
2021*

Princeton University

BSE in Operations Research & Financial Engineering, Dept. GPA: 3.7

Certificate in Computer Science

RESEARCH EXPERIENCE

*September 2023 to
current*

Computational Design Lab, *Columbia University*

HCI and generative AI for text to image and music to video. Assisting Vivian Liu (PhD) in *Generative Disco: Text to Video for Music Generalization*

Advisor: Lydia Chilton

*September 2020 to April
2021*

Operations Research Senior Thesis, *Princeton University*

Estimated impact of Twitter/social media on stock prices with NLP, using sentence-BERT to find an optimal portfolio strategy.

Thesis: *Tweet Trade: Using Sentiment Analysis for Stock Movement Prediction and Portfolio Optimization*

Advisor: John Mulvey

INDUSTRY EXPERIENCE

January 2023 to current

Software Engineer, *Trunk (series a devex, ex-Uber ATG)*

Working on Trunk Check (superlinter) team and web-app platform. Enabled *trunk check* on github PR workflows using github API. Created an onboarding wizard to help users seamlessly onboard onto Check product in the web-app (app.trunk.io). Migrated web-app from react-router to NextJS

August 2021 to December 2022	<p>Software Engineer, <i>DoorDash</i></p> <p>Worked on the alcohol product team. Integrated HSA/FSA items to DoorDash, leading design and implementation for reimbursable receipts. Implemented Dasher scanned ID verification. Added support for flexible item hours for merchants. Designed and implemented new dropoff preferences flow, consolidating SOT for user preferences across 5 core teams.</p>
June 2020 to August 2020	<p>Software Engineer Intern, <i>Capital One</i></p> <p>Worked on Teller 2, an enterprise-wide software deployed across Capital One Financial branch locations. Integrated SSO authentication scheme to Teller 2 and created set of authentication APIs</p>
May 2019 to August 2019	<p>Software Engineer Intern, <i>DataVisor (UML cybersecurity startup)</i></p> <p>Developed an internal service to detect inefficient Cassandra queries to optimize error handling time with Java and CQL. Used Cassandra tables to create data models with real-world data.</p>

COMPUTER SKILLS

<i>Languages</i>	Typescript, Java, C++, Python, SQL, yaml, kotlin
<i>Software & Tools</i>	React, Pytorch, Git, NextJS, gRPC, datadog, Octokit

ACTIVITIES

September 2017 to May 2021	<p>Varsity Athlete, <i>Princeton University Women's Swim Team</i></p> <p>Placed 3rd and 6th for the 2018 and 2019 Ivy League Championships in the 100 Breast, 6th Place and 9th in the 200 Breast. Olympic Trials cut and ranked Top 20 nationally for both events</p>
	<p>Other Societies and Groups @ <i>Princeton University</i></p> <p>2021 Peer Academic Advisor, <i>Princeton University</i></p> <p>2021 Class Historian (Photographer/Videographer), Princeton</p> <p>2017-2021 Princeton Society of Women Engineers</p> <p>2021 Cannon Dial Elm</p>