

# Nina Chen

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## EDUCATION

### Harvard College

*B.A. in Computer Science and Secondary in Statistics, GPA: 3.8 (cum laude)*

Cambridge, MA  
Sept 2017 – May 2021

### Relevant Coursework

|                                |   |
|--------------------------------|---|
| Data Structures and Algorithms | Abstraction and Design in Computation           |
| Machine Learning               | Systems Programming and Machine Organization    |
| Computer Graphics              | Design of Useful and Usable Interactive Systems |

### Brooklyn Technical High School

- Honors: Valedictorian, National Merit Finalist, National AP Scholar

Brooklyn, NY  
Sept 2013 – Jun 2017

## WORK EXPERIENCE

### Google

*Software Engineer, Google Search*

New York, NY  
March 2022 – Present

- Led a cross-functional project involving multiple teams to design and build scalable features for Google Search, encompassing everything from query understanding to frontend development, using C++, Java, TypeScript, etc.
- Proposed and executed a backend migration, resulting in a 99% improvement in query fetch time, which facilitated the launch of a critical feature, driving growth across Google Search
- Built a data pipeline in Go to run weekly Flume jobs for filtering, transforming, and aggregating search query intents for machine learning applications and analysis

*Software Engineer, Google Payments*

Aug 2021 - March 2022

- Designed, developed, and deployed features on the [google.com/finance](https://google.com/finance) platform, including surfacing related stocks, launching portfolios, and establishing explore pages, leveraging Java, TypeScript, and microservices architecture
- Achieved a 96% reduction in refresh time for stock top movers by optimizing the backend data ingestion pipeline, slashing update time from approximately one hour to just three minutes

*Software Engineer Intern, Google Cloud*

May 2019 – Aug 2019

- Designed and implemented enhancements for an internal analytics dashboard, significantly reducing the time required to access new metrics from three weeks to less than one hour
- Implemented a complex UI with preview, saving, and error checking using RxJs, NgRx, and Firestore for storage

### Harvard Student Agency Dev

*Software Engineer*

Cambridge, MA  
Dec 2017 – Oct 2018

- Delivered multiple projects at a student-run startup, developing iOS/Android applications and websites
- Specialized in frontend web and app development using JavaScript, React, and React Native frameworks
- Implemented backend APIs using Node.js, MongoDB, SQL, and GraphQL

## LEADERSHIP & ACTIVITIES

### Harvard CS50

*Teaching Fellow*

Cambridge, MA  
Sept 2019 – Dec 2020

- Instructed [CS50](#) (Introduction to Computer Science) at Harvard College in the role of a section leader.
- Earned the Harvard University Certificate of Distinction in Teaching award for excellence in teaching in Fall 2020

## PROJECTS

### Harvard College

*Human-Computer Interaction Independent Research*

Cambridge, MA  
Jan 2020 – May 2021

- Collaborated in a study investigating various interfaces for AI-powered automated management of email harassment
- Published “[Evaluating Automated System Interventions Against Email Harassment](#)” as a finalist in the CHI 2021 Student Research Competition and as a poster in the IUI 2021 Conference
- Published “[Evaluating the Interpretability of Generative Models by Interactive Reconstruction](#)” with an Honorable Mention award at ACM CHI, 2021 under Professor Glassman, Professor Finale, and Andrew Ross

*Under the influence - A visual story on global alcohol consumption and abuse*

Sept 2020 – Dec 2020

- Collaborated as a team of three on an [interactive visualization web page](#) using JavaScript and D3 to explore the impact of alcohol abuse in the United States and across the world
- Awarded as the [runner up best project](#) by the course staff

## SKILLS

**Programming Languages:** C++ (proficient), Java (proficient), Python (proficient), TypeScript (proficient), OCaml (prior experience), C (prior experience), Go (prior experience)

**Development / Analytics:** HTML/CSS (proficient), React (prior experience), Stata (prior experience), SQL (prior experience)

**Languages:** English (fluent), Mandarin (conversational fluency)