

Emily Chen

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EDUCATION

Barnard College

B.A Computer Science GPA: 3.84

New York, NY

Sep 2021- May 2025

Courses: Advanced Software Engineering, User Interface Design, Analysis of Algorithms, Intro to Databases, Clean Object Oriented Design, Advanced Programming (networking intro), Data Structures in Java

WORK EXPERIENCE

Google | Workspace Platform

Sunnyvale, CA

Software Engineer Intern

May - Aug 2023

- Improved latency for Workspace Platform's indexing API message delivery by implementing a new backend algorithm feature using **Java**, **SQL**, internal **frameworks**, and **dependency injection**.
- Successfully completed **backend development** process including creating design documentation, code implementation, unit testing, experiment testing, to experiment launch and presentation.

Google | Ads Team

Mountain View, CA

STEP Intern

May - Aug 2023

- Worked across Google Search and Google Ads to implement **2 recommendations** end-to-end using **Java**, internal closure templates, **CSS**, and **HTML**, that is now launched and used by **millions of advertisers**
- Implemented editing and saving functionality using **Typescript** to improve effectiveness of recommendations
- Completed **full stack development** process from ideation & UX input, code implementation, automated testing, and manual QA before launch, ultimately contributing **4500+ lines** of code
- Awarded **peer bonus** for delivering "exceptional value through rapid iteration, assisting team members, meticulous attention to detail, and adaptability, resulting in a successful project demonstration and launch."

Smarttwigs Software Consultancy

New York, NY

Technical Product Management Intern

Oct 2022 - Mar 2023

- Led **multi-disciplinary 5 person team** to develop project management component for social media web-app: created and prioritized **30+ Jira tickets**
- Wrote product specifications document for project management component in gherkin syntax, resulting in **5 new features**
- Analyzed and prioritized user pain points, learned about agile methodologies

PROJECTS

[Personal Website](#)

- For additional information and other projects!

[Checkmate Challenge](#) | Full-stack Web Application

- Developed web application for students to learn common chess checkmates using **Python**, **Flask**, **Javascript**, **Bootstrap**

[Art Connect](#) | Full-stack Web Application (in progress)

- Programmed application to connect local artists with customers using **Python**, **Flask**, **Javascript**, **PostgreSQL**, working on frontend to improve user experience.

[BookTrivia](#) | Discord Bot

- Programmed bot using **Java** and **Javacord API** using questions from an online database.

LEADERSHIP & ACTIVITIES

Barnard Computer Science

New York, NY

Computer Science Tutor

Sep 2023 - present

- Tutor 5+ students weekly in Java, Data Structures and Algorithms resulting in **20% grade improvement**

Athena Digital Design Agency

New York, NY

Front-End Developer + Board Member

Jan 2022 - Jan 2024

- Designing and implementing Figma prototypes to develop biannual websites using **HTML** and **CSS**
- Consulted on design and debugging for 3 peer projects in **HTML/CSS**, and **Squarespace**

Columbia Daily Spectator

New York, NY

Arts & Culture Editor

Oct 2021 - present

- Managing 20 writers, editing over 5 weekly articles, and conducting interviews to produce monthly **articles** centered on technology, and pop culture at Columbia University, Morningside Heights, and West Harlem.

TECHNICAL SKILLS

Programming/Tech: Java, PostgreSQL, Flask, Python, HTML, CSS, Typescript, Bootstrap, Git, Swift