

Emily Chen

ec3365@barnard.edu • 347-337-2882 • [LinkedIn](#) • [Portfolio](#) • [GitHub](#)

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

TECHNICAL SKILLS

Programming: Java, PostgreSQL, Flask, Spring, Python, HTML, CSS, Typescript, Bootstrap, Git, CI/CD pipeline, REST, Node.js, React

WORK EXPERIENCE

Google | Workspace Platform

Sunnyvale, CA

Software Engineer Intern

May - Aug 2024

- Demonstrated **37%-56% latency improvement** for indexing API update pipeline by implementing a new backend algorithm feature using **Java, SQL, and dependency injection**.
- Successfully completed **backend development** process including creating design documentation, code implementation, unit testing, manual testing, and presentation, contributing **6000+ lines** of code.

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** resulting in **7 figure revenue**.
- 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**

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**

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.

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**