

# Eric Hwang

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## Education

### HARVARD UNIVERSITY

A.B. in Computer Science and Government. GPA 3.984.

Cambridge, MA

May 2025 (Anticipated)

*Relevant Coursework:* Data Structures and Algorithms, Systems Programming & Machine Organization, Abstraction and Design in Computation, Introduction to Algorithms and Their Limitations

## Relevant Experience

### TIKTOK

#### Software Engineer Intern

San Jose, CA

May 2024 - August 2024

- Reduced load time on a code editor extension by 96% (10 seconds to < 0.4 seconds) using Java
- Simplified code across 22 projects by adding support for DELETE and PUT HTTP methods to a tool that accelerates creation of REST APIs. Utilized React, TypeScript, Go, Flask, and Gin
- Improved accuracy of a large language model (LLM) tool by using Java to enable users to easily customize LLM responses with an intuitive graphical user interface

### FAIR OPPORTUNITY PROJECT

#### Software Engineer Intern

Remote

February 2023 - August 2023

- Programmed on and served as leader of an engineering team that built web apps offering 3000+ underprivileged students free college advising
- Provided hundreds of users with 24/7 personalized assistance on completing complex financial aid forms by developing a generative AI chatbot with retrieval augmented generation using Flask and React
- Increased mentorship capacity by 275% (175 more students mentored per year) by launching Fair Opp's primary web portal that saves hundreds of volunteer hours annually by automating repetitive tasks

### HARVARD TECH FOR SOCIAL GOOD

#### Senior Software Engineer

Cambridge, MA

August 2022 - August 2024

- Led a cross-functional team each semester by programming hardest tasks, planning system architectures, teaching technical skills, and communicating with clients to build tech solutions for social impact groups
- Increased government transparency by creating a Django and React data visualization web app for the City of Boston that summarizes over 1,500,000 municipal spending data points
- Automated delivery of customized carbon-reducing feedback to corporations by creating a REST API and training a LLM tool with Python and LangChain for a climate non-profit

## Skills and Projects

### Homeless Shelter Bed Waitlist Management Portal

- Saved a local homeless shelter 400+ hours annually by creating a web app that automates managing shelter bed requests and synchronizes data. Built with React, Next.js, and TypeScript
- Implemented Google OAuth user authentication and managed corresponding Google Cloud

### Rezzy: Reservation Automation Web App

- Created a web app to automatically notify users of cancellations for fully-booked reservations using TypeScript, React, Next.js, Tailwind CSS, Selenium, and Flask
- Ran asynchronous logic on the cloud using Docker, AWS Elastic Container Service, and AWS Lambda

**Programming:** Python, JavaScript, TypeScript, C++, Java, Go, OCaml, C, SQL, CSS/HTML, MATLAB

**Frameworks and Tools:** React, Next.js, Flask, Tailwind CSS, Django, AWS, Docker, PostgreSQL, LangChain

**Foreign Languages:** Native English, Professional Working Proficiency Korean, Elementary Chinese

**Soft Skills:** Learning Quickly, Problem Solving, Communication, Teamwork, Teaching