

# Ethan Kam

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## EDUCATION

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**University of Washington** | Bachelor's of Science in Computer Science

Expected Graduation: June 2024

- GPA: 3.75, Dean's List All Quarters

## WORK EXPERIENCE

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### Software Engineering Intern

June 2022 - September 2022

Smartsheet | Bellevue, WA

- Joined the In-App User Education team, developing features to improve the onboarding experience for all new users.
- Owned a feature in the Project Assistant flow that allowed users to view and accept suggested strings for Tasks and Subtasks using Typescript, React, Redux Saga, and AWS S3.
- Ran a corresponding A/B experiment for the feature in Amplitude to track its impact on users, with the goal of decreasing the drop-off rate during onboarding and increasing the interaction rate on the Task and Subtask pages.
- Practiced the agile methodology to effectively plan projects and work around conflicts with my team and the larger four team Creation Flows pillar.

### Computer Science Teaching Assistant

September 2022 - Present

Paul G. Allen School of Computer Science | Seattle, WA

- Leveraged communication skills to conduct quiz sections and office hours, helping students learn about the core concepts in Java programming such as data structures, recursion, file input/output, and functional decomposition
- Developed testing scripts in Python to automate assignment behavior and feature testing, saving TA's 10 hours a week on grading.

### Undergraduate Research Assistant

September 2021 - January 2022

SEAL Research Lab | Seattle, WA

- Implemented custom Google Analytics event handlers to track usage for the technical writing library platform ECOS.
- Added comment title as text feature using Microsoft's office.js and API requests to the user's comment library.

## PROJECTS

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### Colley.fyi

- Built a platform for prospective students to view crowdsourced data of previous college applicants.
- Developed custom REST APIs in Spring Boot and Kotlin to read and update college and application data.
- Implemented a JPA interface and custom Response Entities for applications to cut the most used API's payload by 80%.
- Cached college statistics in MySQL for constant access, decreasing calculation time by 95% and eliminating extra queries.
- Hosted React frontend on AWS Elastic Beanstalk and Spring backend on the Elastic Container Registry, and routed traffic between the two based on URL params using Route53 to avoid cross domain CORS issues.

### Kadu AI

- Developed a Gmail extension that turns simple instructions into professional emails and cover letters using OpenAI's GPT-3, React, Redux, Firebase, Node.js, and Google Cloud Functions.
- Parallelized OpenAI API requests to chain results asynchronously, decreasing generation time by 50%.
- Utilized a recurring 15 minute cron job during initial higher traffic periods to eliminate Cloud Function cold starts.
- Conducted 50+ 30 minute interviews and received additional form responses from users, iterating off their feedback.

### Spogo | Top 10% of applicants in Y Combinator's winter 2022 startup batch

- Created a shareable link-in-bio to help athletes monetize off their name, image, and likeness.
- Cut bandwidth costs by 90% by implementing Cloudflare video streaming, adding video thumbnails, and optimizing video downloads on re-renders.
- Used by 30+ athletes, and generated pre-seed investor interest from former Y Combinator founders.

## SKILLS

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**Languages:** Java, TypeScript, Python, JavaScript, SQL, Kotlin, HTML/CSS, GraphQL, Solidity.

**Libraries and Frameworks:** React, Spring Boot, MySQL, Hibernate, Jest, Enzyme, JUnit, React Native.

**Tools and Technologies:** Amazon Web Services, Git, Google Cloud, Node.js, Docker, Redux, Android Studio.