

# Ethan Kam

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## EDUCATION

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

Expected Graduation: March 2024

- GPA: 3.79, Dean's List All Quarters

## WORK EXPERIENCE

**Software Engineering Intern**

June 2022 - September 2022

Smartsheet | Bellevue, WA

- In App User Education team, project to be determined.

**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

**Colley.fyi**

- Built a platform for prospective students to view crowdsourced data of previous college applicants.
- Developed custom REST API's 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 33%.
- Used Spring JPA (Hibernate) to model, read, and write data to a MySQL database running in a Docker container.
- Cached college statistics in MySQL for constant access, decreasing calculation time by 95% and eliminating extra queries.

**Spogo** | Top 10% in Y Combinator's winter 2022 startup batch

- Developed 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.
- Parsed profile URLs and queried Firestore based on username to display a user's profile information.
- Used by 30+ athletes, and generated pre-seed investor interest from former Y Combinator founders.
- Developed and deployed a companion app in React Native with a Firebase and Node.js backend.

**NFT Marketplace** | Moralis + Avalanche Hackathon

- Developed a smart contract in Solidity that handles listing NFT's on the marketplace, and transferring the Ethereum and NFT between users after a transaction.
- Unit tested the smart contract locally using Truffle and Mocha.js, and in deployment on the test networks using Remix.
- Used jQuery to fetch NFT data from IPFS storage, displaying all NFTs for a given address.
- Utilized web3.js and Moralis to mint and upload ERC721 compliant NFTs to the Ethereum blockchain.

**Personal Blog**

- Utilized inner HTML stored in DynamoDB (AWS) to give each blog different formats, layouts, and images.
- Defined custom queries using GraphQL to completely remove data over fetching from API endpoints.
- Developed an internal tool to automate adding HTML tag and CSS to blog posts, decreasing writing time by 50%.

## SKILLS

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

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

**Tools and Technologies:** Amazon Web Services, Git, Firebase, Docker, Android Studio, Redux.