

# Derek Ni

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## EDUCATION

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### Cornell University

Ithaca, NY

*B.S. Computer Science, Minor in UX; GPA: 4.064; Tau Beta Pi Honor Society*

*Expected May 2023*

*Courses: Algorithms, Functional Programming, Operating Systems, Database Systems, Artificial Intelligence, Machine Learning, Web Applications, Discrete Structures, Backend Development, Probability & Statistics*

## WORK EXPERIENCE

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### Asana | React

New York, NY

*Software Engineer Intern*

*May 2022 – August 2022*

- Built a typeahead for Asana custom field selectors, which currently support 300+ options
- Designed new components, improved existing ones, and iterated changes under a feature flag
- Discussed with tech leads and wrote documentation on improving core components

### Fizz (YC S21) | Flutter, Firebase

New York, NY

*Software Engineer Intern*

*Jan 2022 – May 2022*

- Backed by Kleiner Perkins, SV Angel, A\*, etc.
- Developed a backend Firestore database to handle credit card and repayment logic
- Created webhook using Apto API to handle updating the backend for transaction updates
- Connected backend to mobile app and added Firebase event tracking using Flutter

### Amazon | Java

Seattle, WA

*SDE Intern*

*May 2021 – Aug 2021*

- Redesigned and improved an API for getting messages with the Alexa Messaging Service
- Implemented encrypted pagination tokens for paging through messages with the redesigned API

### Tesla | React Native, Python

Palo Alto, CA

*Mobile Engineer Intern*

*Feb 2021 – May 2021*

- Developed and improved components using React Native in the Tesla mobile app
- Created simulator to test code endpoints using Flask, Python, and WebSockets

## PROJECTS

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### [Ascii Stream](#) | IvyHacks 2<sup>nd</sup> Overall | NextJS, WebRTC, Python

- Video call web app that converts video to ASCII art to save bandwidth
- Implemented with WebRTC for real time text and audio communication between users
- Deployed as Next.js web app to Vercel, with Python script to convert video frames to ASCII art

### [MCAT Bot](#) | Puppeteer, Twilio, AWS

- Bot to track MCAT test location openings to sign up for contested locations
- Hosted on EC2 instance and sends texts and calls through Twilio for updates

### [Minto](#) | React, Chrome

- Chrome extension to incentivize productivity through rewards
- Customizable timers to track minutes worked, which users can spend on rewards they create
- Includes website blocking while working, native notification settings, and to-do lists

## SKILLS

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**Languages:** Python, TypeScript/JavaScript, Java, Dart, C#, Swift, OCaml, HTML/CSS, and SQL

**Tools:** React, Git, Visual Studio Code, Firebase, Flutter, Eclipse, XCode, and Jupyter Notebook