

Derek Ni

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EDUCATION

Cornell University

B.S. Computer Science, Minor in UX; GPA: 4.05

Honors: summa cum laude, Tau Beta Pi Honor Society

Courses: Algorithms, Functional Programming, Operating Systems, Database Systems, Artificial Intelligence, Machine Learning, UNIX Scripting, Backend Development, Probability & Statistics

Ithaca, NY

Graduated May 2023

WORK EXPERIENCE

Asana | React

Software Engineer Intern

New York, NY

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

Software Engineer Intern

New York, NY

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

SDE Intern

Seattle, WA

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

Mobile Engineer Intern

Palo Alto, CA

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

[Ascii Stream](#) | [IvyHacks 2nd 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 dates 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

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

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