

Derek Ni

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EDUCATION

Cornell University

Ithaca, NY

B.S. Computer Science, Minor in Business; GPA: 4.04; 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

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 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

[Ascii Stream](#) | IvyHacks 2nd Overall | NextJS, WebRTC

- 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

[Minto](#) | React

- Chrome extension to incentivize productivity through rewards
- Wrote scripts to track minutes worked, which users can spend on rewards they create
- Iterated through testing and added website blocking, notification settings, and to-do lists

[TaskTime](#) | Swift

- Productivity iOS app to motivate users to complete to-dos and keep healthy habits
- Created gamified to-do list to increase user productivity, through points and rewards

SKILLS

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