# Derek Ni

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## EDUCATION

**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

**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

**[Ascii Stream](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](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](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, Visual Studio Code, Firebase, Flutter, Eclipse, XCode, and Jupyter Notebook