Tony **Yang**

📱 (607)-279-3568 | ✉ txy3@cornell.edu | 🏠 tyang.netlify.com | 🐙 tyang98 | 🔗 tyang98

Education

Cornell University *Ithaca, NY*
B.A. in Computer Science | Minor in Mathematics *Expected 2022*

- GPA: 3.85 | Relevant Coursework: OOP & Data Structures, Functional Programming, Analysis of Algorithms, Discrete Structures, Database Systems, Linear Algebra, Programming Languages & Logics, Operating Systems, Applicable Algebra*, Embedded Systems*, Computer Networks* (* = planned)

Experience

Cornell Design & Tech Initiative *Ithaca, NY*
Software Developer *Oct. 2019 - Current*

- Working on Rider, a ride-share app for students with disabilities on campus, with a team of designers, product managers, and developers
- Implement a responsive frontend for the iOS and Android app with Flutter, while following the Git branching and CI/CD workflow
- Built reusable widgets and integrated REST APIs with the frontend of the app

Cornell University *Ithaca, NY*
Teaching Assistant *Jan. 2021 - Current*

- Hold office hours and grade assignments for students
- Spring 2021 - present: Functional Programming (400+ students) and Trends in Web Development

Cornell Dept. of Economics *Ithaca, NY*
Research Assistant *Jun. 2017 - Aug. 2018*

- Conducted research on new car technologies and their impact on the rapid product quality improvement in the Chinese auto industry under Dr. Barwick
- Compiled over 150 quarterly and annual financial reports for major Chinese automobile firms using Bloomberg, Capital IQ, and other financial databases

Genomic Open-source Breeding informatics initiative *Ithaca, NY*
Software Development Intern *Jun. 2018 - Aug. 2018*

- Developed an application that performs a comparative analysis of genotype files
- Implemented a parser that efficiently reads genotype files containing over 2000 lines of genome sequences and metadata.
- Integrated application with GOBii's scalable genomic data management system

Projects

lang
OCaml *Oct. 2020 - Dec. 2020*

- An interpreter and static type checker for my own functional programming language *lang*
- This language includes a small standard library, module system, pattern matching, and custom user-defined data types

Moody - Hack Our Campus
React Native, TypeScript *Aug. 2020*

- An iOS and Android tracker app meant for users to track and reflect on their emotions, as well as provide encouragement for users
- Integrated Google Dialogflow to create a Chatbot that sends encouraging quotes and memes based on users' mood
- Placed top 3 for the hackathon's Mental Health category

mediaRec
React, Flask, Python *Jul. 2020. - Aug. 2020*

- Develop a webapp that provides movie and song recommendations based on user preferences using Spotify API and TMDb API
- Implement recommendation algorithm/logic using Flask, with a frontend created with React

Skills

Languages	Java, OCaml, Python, JavaScript (ES6, React, React Native), TypeScript, Dart, Kotlin, HTML/CSS
Technologies and Tools	Android Studio, Flutter, LaTeX, Vim, Git, Node.js, Firebase, Express
Awards	Tanner Dean's Scholar
Communication	English, Chinese