

Tony Yang

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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, PostgreSQL
Awards	Tanner Dean's Scholar
Communication	English, Chinese