

# Tony Yang

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## Education

### Cornell University

B.A. IN COMPUTER SCIENCE | MINOR IN MATHEMATICS

Ithaca, NY

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, System Security\*, ML\*, Probability\* (\* = planned)

## Experience

### Capital One

INCOMING SOFTWARE ENGINEER INTERN

McLean, VA

Jun. 2021 - Aug. 2021

- Expected to work on the CreditWise Data team

### Cornell Design & Tech Initiative

SOFTWARE DEVELOPER

Ithaca, NY

Oct. 2019 - May 2021

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

### Cornell University

TEACHING ASSISTANT

Ithaca, NY

Jan. 2021 - Current

- Hold office hours and grade assignments for students
- Summer 2021: Introduction to Analysis of Algorithms
- Spring 2021 - present: Functional Programming (400+ students) and Trends in Web Development

### Genomic Open-source Breeding informatics initiative

SOFTWARE DEVELOPMENT INTERN

Ithaca, NY

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, C, Kotlin, HTML/CSS
Technologies and Tools	Android Studio, Flutter, $\text{\LaTeX}$ , Vim, Git, Node.js, Firebase, Express, PostgreSQL
Awards	Tanner Dean's Scholar
Communication	English, Chinese