Tony Yang

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EDUCATION

Cornell University
BA in Computer Science
Expected May 2022 | Ithaca, NY
College of Arts and Sciences

Ithaca High School
Grad. June 2019 | Ithaca, NY
GPA: 4.10 / 4.0

LINKS

 tyang98
 tyang98

COURSEWORK

OOP & Data Structures
Functional Programming
Discrete Structures
Intro to Analysis of Algorithms
Linear Algebra

SKILLS

Programming
Experienced
Java • OCaml • Python
Familiar
JavaScript (React.js) • HTML
CSS • Kotlin • Dart
C++

Tools
Android Studio • Flutter • LaTeX
Vim • Git

Awards
Tanner Dean's Scholar

EXPERIENCE

Cornell Design & Tech Initiative
Software Developer
Oct 2019 – Current | Ithaca, NY

- Developer for a selective project team on campus, working on Carriage, a platform for requesting CULift paratransit service rides, with a team of designers, product managers, and web developers.
- Created a Ride-Request iOS and Android app using Flutter.
- Gained experience with the Git branching workflow.

Genomic Open-source Breeding informatics initiative
Software Development Intern
June 2018 - Aug 2018 | Ithaca, NY

- Developed a platform that a comparative analysis of genotype files and report differences.
- Implemented a parser that reads genotype files containing 1000+ lines of genome sequences and metadata.
- Integrated application with GOBii's scalable genomic data management system

PROJECTS

OScrabble | OCaml

- A functional implementation of the board game Scrabble with local multiplayer.
- Implemented a scoring system that manages each player's score and a word checker that uses a Trie to verify whether a proposed word is a real Scrabble word.

Pollack | Java

- Developed as the final project for CS 2110, where a person tries to find an orb in a maze and return back to the entrance in the least steps possible.
- Implemented Dijkstra's Shortest Path Algorithm, DFS, BFS, Min/Max Heaps, and Selection Sort while optimizing performance and time complexity.
- Produced an algorithm that beat the professor's score, which ranked 4th in the class.

Tattler | Java, Python (Django)

- A native Android app for the Tattler (news publication) with a responsive UI and navigation.
- Implemented a Java frontend and Django backend for app that displays articles from a database.
- Designed app layout and content to uphold accessibility standards