Eric Wang

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EDUCATION

Cornell University

Ithaca, NY

Bachelors of Arts in Computer Science

Aug. 2015 - May 2019

Email: ew366@cornell.edu

- o Cumulative GPA: 3.88
- Honors: Dean's List (Fall '15, Fall '16, Fall '17, Spring '18)
- Relevant Coursework: Object-Oriented Programming and Data Structures, Analysis of Algorithms, Functional Programming, Computer System Organization and Programming, Operating Systems, Database Systems, Natural Language Processing, Computer Networks, Compilers

EXPERIENCE

Optiver Chicago, IL

Software Engineering Intern

Jun. 2018 - Aug. 2018

- Click Trader: Wrote an application that enables trading of derivative instruments on the NYSE Arca Options exchange, implementing the exchange's binary network protocol. Allows traders to place and modify outright and multi-leg orders, applying validation of risk limits and synchronizing trade information with internal applications. Written in C++, with unit tests written using the Google Test framework.
- Automated Trading Systems: As part of the ATS team, improved performance & reliability of Optiver's automated quoting and liquidity taking HFT systems that operate on various US options exchanges.

Cornell University

Ithaca, NY

Teaching Assistant for CS 3110

Aug. 2017 - Dec. 2017

- Student Assistance: Held office hours and answered questions on Piazza, assisting students with core concepts of functional programming and data structures.
- Grading: Graded assignments and exams.

PROJECTS

- Xi Compiler: An optimizing compiler for the object-oriented language oXi (syntax similar to C), with static type checking and run-time type discrimination. Outputs x86-64 assembly code. Written in Java.
- NBA Statistics Action: An NBA statistics conversational bot for Google Assistant, supporting a wide variety of statistical queries, with understanding of conversational context. Uses the NBA.com API, with a Node.js backend.
- Caml Messenger: Asynchronous messenger client and server written in OCaml, with a GTK+ GUI. Implemented a TTMP/STOMP message broker using the LWT concurrency library.
- **PortOS**: A mini operating system written in C, with preemptive multithreading, UDP & TCP networking, and a filesystem based on UFS.
- Thinkpad Fan Control: CPU fan control application for Thinkpads that displays system temperatures, allowing for customizable temperature thresholds and manual control. Written in Vala, with a GTK+ GUI made using Glade.
- Cornell Electric: Web application using the Flask framework that visualizes Cornells energy consumption in real time on a heat map. Uses Python to scrape the relevant online energy data. Utilizes Bootstrap, JavaScript, jQuery, and the Google Maps API for the frontend.
- 2048 Game: An implementation of the block puzzle game 2048, written in Java, with a Swing GUI.

SKILLS & ACTIVITIES

- Languages: Java, C, Python, C++, OCaml, Javascript, SQL
- Technologies: Node.js, Flask, Git, Android, Linux, GTK+, Jenkins, Vim
- Activities: Cornell Photo Society, Cornell Association of Computer Science Undergraduates, BigRed//Hacks