Justin T. Tran

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EDUCATION

Cornell University Ithaca, NY Graduating May 2019

GPA: 3.55, Bachelor of Arts: Computer Science

EXPERIENCE

Cornell CMSX, Developer

Ithaca, NY

October 2017 – Present

- Redesigned the UI and UX of Cornell's Course Management System, an application used by teachers and students to release and submit assignments across more than 40 courses
- Refactored thousands of lines of Java code in a legacy system to improve the efficiency of the website when creating and displaying new web pages

Motional.AI, Software Engineering Intern

New Brunswick, NJ

June 2017 – August 2017

- Worked on artificial intelligence approaches for embodied conversational agents
- Used C# to develop a signal processing and conflict resolution unit to interpret users' emotions and speech
- Wrote a classifier using Hidden Markov Models to identify transitions in a user's behavior over the course of a conversation

Cornell Design & Tech Initiative, Developer

Ithaca, NY

October 2016 – Present

• Built a web application to help Cornell students plan their semesters

PROJECTS

Course Sweeper • Course Sweeper. herokuapp.com

December 2017 – January 2018

- Developed and deployed a web application with Flask to notify students when their courses have open seats
- Interfaced with a MySQL database to save and verify course and user information

DropBin

March 2017

- Coded an append-only, single-server minimalistic file backup system in Python
- Designed a backup server to accept connections from clients and synchronize file contents

Unix Shell

February 2017

- Created a basic Unix shell in C, supporting job control and signaling
- Parsed user input to interpret and execute a number of built-in and custom commands

Entropy

January 2017 – May 2017

- Developed a 2D puzzle platformer game in Java running on the LibGDX engine
- Utilized the MVC pattern to optimize and structure the entire project

Malloc

December 2016

- Composed and optimized a memory allocation library, based on the C standard library
- Produced code preventing memory fragmentation and increasing utilization and robustness

COURSES

Artificial Intelligence and Practicum

Analysis of Algorithms

Data Structures and Functional Programming

Computer System Organization and Programming

Natural Language Processing Computer Game Architecture Operating Systems Data Structures

SKILLS

Languages and Technologies: C, C#, Java, Python, OCaml, HTML, CSS, JavaScript, PHP, SQL, Unix