

Education

Cornell University, College of Engineering
Cumulative GPA: 3.46

Bachelors of Computer Science, Expected 2020
Business Minor, Presidential Research Scholar

Experience

Software Engineering Intern at Capital One

2018

- Created internal Android app from scratch to help Associates create NDAs
- Developed natively in Kotlin and integrated several APIs including the DocuSign API
- Implemented UI using XML that followed Material Design guidelines

Team Lead on Autonomous Bicycle Team

2017-2018

- Manages a team of 20 undergraduates to build a self-steering, self-balancing bicycle
- Act as a liason between Cornell College of Engineering and the team
- Developing obstacle detection computer vision capabilities using OpenCV and ROS

Cornell University Teaching Assistant

2017-2018

- Served as a TA for CS 2112 (Honors Object-Oriented Design & Data Structures)
- Led weekly discussions, designed student projects, and held weekly office hours

Research

Cornell Graphics and Vision Group Research Assistant

2018

- Studying the improvement of realistic rendering in an augmented reality environment

Cornell Learning Analytics Research Assistant

2016-2018

- Used R for exploratory analysis on available student data
- Identified key differences between taking co-requisite courses as pre-requisites

Projects

City of Light

2018

- Created a desktop game in Java with LibGDX and Box2D in a team of six people
- Accepted to Boston Festival of Indie Games (BostonFIG)

Black Hole Simulator

2018

- Created a black hole simulator using WebGL and GLSL
- Allowed for realistic rendering and user interaction
- Rendered images using ray tracing and rasterization

Simulating Evolving Artificial Life

2016

- Implemented a parser and interpreter for a given context-free grammar using Java
- Created a GUI to control and visualize a multi-threaded world using JavaFX
- Built a Java-backed thread-safe web server to handle distributed worlds

Skills

Java • Unit Testing • Git • Kotlin • OCaml • R • HTML/CSS • JavaScript • C • WebGL • Python • \LaTeX

Applicable Courses

Computer Graphics • Computer Game Design • Analysis of Algorithms • Object-Oriented Design & Data Structures Honors • Functional Programming • Operating Systems • Networks • Discrete Structures

Activities

- Corporate Officer for Cornell Association of Computer Science Undergraduates (ACSU)
- Graphic Designer for Cornell Daily Sun
- Alpha Phi Omega Service Fraternity Member