Matthew Chuang

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Objective A dedicated junior studying computer science looking to grow his practical knowledge by contributing to an interesting and engaging project and by working with a passionate team.

Education *Rensselaer Polytechnic Institute*,Troy, NY, class of 2019

- Bachelor's of Science in Computer Science
- Pursuing Chinese Minor
- GPA 3.34/4.0

Coursework *Rensselaer Center for Open Source (RCOS) - CSCI 4965* (Fall 2017)

- Participation in a self-chosen project team in order to collaboratively design open source software

Large-Scale Programming and Testing - CSCI 4963 (Fall 2017)

- Focusing on paradigms and techniques pertaining to software testing, debugging, refactoring, and general maintenance to prepare for the software development process in the real world
- Seeking to identify and avoid anti-patterns, identify defects in software systems, and demonstrate the ability to scale up and refactor code to accommodate for large-scale code bases

Programming Languages - CSCI 4430 (Fall 2017)

- Exposure to functional programming, concurrent programming, and logic programming paradigms using Oz, Haskell, SALSA, Erlang, and Prolog

Intro to Algorithms CSCI 2300

- Enriching knowledge on the mathematics behind various data structures and algorithms

Principles of Software CSCI 2600

- Undertaking the study of the design, implementation testing,, and documentation of complex software using Java

Intro to Open Source CSCI 2963

- Exploring the potential of Open Source software and licensing using git version control platform

Computer Organization CSCI 2500

- Acquired a basic understanding of operating systems, digital logic, assembly language, advanced architectures, and the machine level

Foundations of Computer Science CSCI 2200

- Gained knowledge of set theory, combinatorics, probability, automata, and Turing Machine model

Data Structures CSCI 1200

- Utilized the C++ language to explore data structures and object-oriented programming

Introduction to Programming CSCI 1100

- Solidified knowledge of the fundamental basics of programming using Python

Experience *Amazon Robotics - Hardware Engineering Intern*, North Reading MA, January 2016

- Coded Amazon Echo internal demonstration software using Python, Bash script, AWS S3 Bucket and the Alexa Skills Kit to fulfill order requests from the warehouse floor to be delivered to an audience via robotic arm
- Created Amazon Echo demonstration using Python for March 2016 MARS conference which delivered VIP guests their welcome packages via *Amazon Robotics* drive unit using Python. Bash script, AWS S3 Bucket and Alexa Skills Kit

Intro to Open Source CSCI 2963 - DidIt Android Mobile Application, Spring 2017

- Intro to Open Source final project
- Utilized Android Studio and the Android SDK to develop a simple todo app for android
- Worked in a team of three, using github source control, and collaborating in person
- Created graph visualization of input data using Open Source GraphView library

Microsoft On-Campus Coding Competition, August 2016

- Coded for four hours to solve multiple programming challenges using C++

Skills *Programming Languages*: C++, Java, Python, and C proficiency
API Libraries: Android SDK, Alexa Skills Kit
Web Development: HTML5, CSS3, Javascript, and Bootstrap knowledge