Anthony Cho

Student | Software Engineer

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Education

Aug 2016 – May 2020

BS in Computer Science, *Rice University*, *Houston, TX.*
- **Positions** Rice CS Club External Vice President (2018-2019), Rice CS Club Treasurer (2017-2018), Rice CS Club Freshmen Representative (2016-2017), HackRice 6 & 7 Organizer
- **Awards** New Entrepreneurs Grant (10000 USD), Undergraduate Elevator Pitch Competition (1000 USD)
- **Courses** Parallel Programming, Advanced OOP Design, Algorithms, Computer Systems, Database Systems

Relevant Work Experience

May 2018 – Aug 2018

United Airlines, *Mobile Development Intern*, Houston, TX.
- Implemented a data tracking model for booking flights in the United Android App that sends user actions, booking selections, and error logs to a database for business and technical analysis
- Developed a proof of concept general messaging feature and in-flight message parser that automatically logs requests such as food orders made through messaging the flight crew in the United Android App
- Designed and created an Android library to accept and process payments in the United Android App

May 2017 – Aug 2017

Sensorfield, *Software Engineer Intern*, Houston, TX.
- Developed the front and back-end for graphical display, analysis, and manipulation of data from Sensorfield's wireless sensor systems to allow users to live monitor their oil wells as well as to predict potential issues
- Built React/Redux based live updating sensor modules, user data based navigation menu, home page, main menu, and login (Javascript/ES6, mySQL | Node.js, ReactJS, Bootstrap, Express)

Feb 2017 – May 2017

ParkIT, *Software Engineer Intern*, Houston, TX.
- Designed and implemented an iterative improvement algorithm to increase accuracy of neural network architecture for unique data sets by optimizing parameters, such as the adam learning rate
- Tested various approaches with convolutional neural net architecture for ParkIT computer vision technology

July 2015 – Aug 2015

UT Center for Space Research (NASA Grant), *Research Intern*, Austin, TX.
- Determined the orbital maneuvers that led to major equipment damage and errors through computational analysis of 2 trillion points of high-rate airborne laser altimetry data from NASA's ICESat 1 Satellite
- Designed and wrote code for graphical analysis of speculative reflection and satellite calibration

Work Experience

January 2018 – Present

Rice CS Department, *Undergraduate Teaching Assistant*, Houston, TX.
- Aid in the instruction of a Rice database systems class by grading projects, giving feedback, and holding office hours

Projects

Owl Security, *CodeRED*, *github.com/foerever/OwlSecurity*.
An Android app that turns any phone into an intelligent, image recognition-based security camera. Won "Best Use of IBM Watson" at CodeRED 2016 and 3rd Place at Rice Undergraduate Elevator Pitch Competition.

defBeats, *PennApps XV*, *devpost.com/software/defbeats*.
A Raspberry Pi circuited interface that helps deaf people experience music using real-time Fourier transforms for raw audio decomposition and a custom built motor system.

Rides Organizer, *PennApps XVI*, *github.com/foerever/RideAutomation*.
A web-based platform built with React and MongoDB that automates the process of organizing rides within a small organization. Matches volunteer drivers with those who need a ride for repeat events.

Skills

Languages Java, Python, PostgreSQL, C, Javascript

Technologies React, Android, MongoDB, Tensorflow, Node, Git, HTML, CSS, GMT