

Anthony Cho

Student | Software Engineer

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Education

Aug 2016 – **BS in Computer Science**, *Rice University, Houston, TX.*

- May 2020
- **Leadership** Rice CS Club President (2019-2020), CS Club External Vice President (2018-2019), CS Club Treasurer (2017-2018), CS Club Freshmen Representative (2016-2017), HackRice 6 & 7 Organizer
 - **Awards** New Entrepreneurs Grant (10,000 USD), Undergraduate Elevator Pitch Competition (1,000 USD)
 - **Courses** Database Systems Implementation, Parallel Programming, Advance Algorithms, Advanced Object-Oriented Programming & Design, Operating Systems, Principles of Programming Languages, Data Science

Relevant Work Experience

May 2019 – **Cisco Meraki**, *Software Engineer Intern*, San Francisco, CA.

- Aug 2019
- Worked on performance bottlenecks in Meraki's cloud networking platform, decreased page load time on one of the most frequented pages for largest customers by 54% amongst other improvements
 - Designed and built a high performance, non-blocking client side caching system optimized for large payloads
 - Added new API features such as a RESTful endpoint for top down deletion of organizations, response code logging for api requests, and filtering api requests by specified parameters (Ruby | Ruby on Rails)
 - Authored roadmap of mid and long term solutions for page performance issues with extensive documentation and analysis, presented to senior leadership and used in quarterly planning

May 2018 – **United Airlines**, *Mobile Development Intern*, Houston, TX.

- Aug 2018
- Developed a 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
 - Implemented a data tracking model for booking flights in the app that logs errors and user actions

May 2017 – **Sensorfield**, *Software Engineer Intern*, Houston, TX.

- Aug 2017
- 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 – **ParkIT**, *Software Engineer Intern*, Houston, TX.

- May 2017
- 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 – **UT Center for Space Research (NASA Grant)**, *Research Intern*, Austin, TX.

- Aug 2015
- 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 **Rice CS Department**, *Undergraduate Teaching Assistant*, Houston, TX.

- Present
- Aid in the instruction of Rice database systems class, COMP 430, and computer systems class, COMP 321, by grading projects, giving feedback, and holding office hours

Projects

Work Orders, *HackRice*, <https://github.com/foerever/WorkOrder>.

A full stack platform for work order optimization, data analytics and visualization, and automated service tracking. Won 3rd place overall at HackRice 9 and 1st place for Chevron's work order optimization track.

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.

Skills

Languages Python, Java, PostgreSQL, C, Javascript, Ruby, C++

Technologies React, Android, Ruby on Rails, MongoDB, Node, Git, New Relic, HTML, CSS, Spark, Tensorflow