

# Anthony Cho

Student | Software Engineer

✉ Anthony.Cho@rice.edu  
🌐 anthonycho.net  
🐙 github.com/foerever  
in linkedin.com/in/sungsoocho/

## Education

- Aug 2016 – **BS in Computer Science**, *Rice University, Houston, TX.*  
May 2020
- **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 (10,000 USD), Undergraduate Elevator Pitch Competition (1,000 USD)
  - **Courses** Parallel Programming, Advanced OOP Design, Algorithms, Computer Systems, Database Systems

## Relevant Work Experience

- 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 United Android App that sends user actions, booking selections, and error logs to a database for business and technical analysis
- 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 a Rice database systems class by grading projects, giving feedback, and holding office hours

## Projects

**Owl Security**, *CodeRED*, [github.com/foerever/OwlSecurity](https://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](https://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](https://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