# KEVIN **CHEN**

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## EDUCATION

**New York University** Tandon School of Engineering**,** New York, NY *Expected Grad: May 2022*
- Bachelor of Science, Computer Science, Minor: Cyber Security, Business Studies
- GPA: 3.5
- Relevant Coursework: Data Structures & Algorithms · Object-Oriented Programming · Linear Algebra · iOS

## SKILLS

- **Programming:** (Advanced) Python · Swift · Java | (Basic) C++ · JavaScript · HTML/CSS
- **Software:** Git · Bash · XCode · Google Cloud Platform · Firebase · AWS
- **Platforms:** Arduino & Raspberry Pi (IoT) · iOS App Development · Windows · macOS · Linux

## EXPERIENCE

**Intro to Engineering and Design**, Brooklyn, NY *September 2019 – Present*
*Teaching Assistant*
- Work with first-year students in Open Lab sessions for introductory cornerstone engineering course (EG1003)
- Mentor 3-student groups on semester-long design projects (Rapid Assembly and Design Challenge)

**NYU-X Research Lab**, New York, NY *May 2019 – August 2019*
*Research Fellow*
- Assisted in research project to develop robot-based learning system to teach geometry to middle-school children using OptiTrack motion capture system, Python, and iOS app, in collaboration with NYU-IT

## PROJECTS

**Tangible Activities for Geometry**, NYU-X Lab Research Project *May 2019 – August 2019*
- Developed iOS app to interact with Linux-operated Lego Mindstorms robot and setup RabbitMQ broker
- Utilized Python to communicate with robot and OptiTrack motion-capture system through MQTT

**SiteSeer**, NYU EG1003 RAD Project *January 2019 – May 2019*
- Implemented Google Cloud with Firebase, AutoVision ML, Storage, Directions API, and Speech Services
- Configured Camera/Sensors to operate on Raspberry Pi to provide feedback such as image recognition, publish messages to Firebase, and get direction requests all using Python
- Developed iOS app to obtain GPS location from phone, provide live-feed, integrate speech services (speech-to-text and text-to-speech)

**Carbon Footprint**, HackRPI 2019 *March 2019*
- iOS app to graphically display user's contribution to depleting Earth's natural resources using Google Cloud, Swift, and Apple CoreML to detect food, gas/electricity bills, and form of transportation

## ACTIVITIES

- **NYU VIP Self-Drive**: Work with perception team to implement computer vision to develop a self-driving car
- **CS Tutor**: Tutor students in Python (CS 1114) and Data Structures & Algorithms (CS1134)
- **PolyBots**: Utilize Arduino & Raspberry Pi to build mini-robots for friendly competitions

## AWARDS

- **TechFestival Hackathon** 2019: 1st (out of 18 teams) at largest CUNY hackathon & Best Google Cloud Hack
- **NYU EG1003 RAD Project** 2019: 2nd (out of 25 teams) & Nick Russo Award Winner for Outstanding Design