

# KEVIN CHEN

Computer Science Major • Research Intern

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## EDUCATION

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**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
- Coursework: Intro Python • Data Structures & Algorithms

## SKILLS

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- **Programming**: (Proficient) Java • Python • Swift | (Familiar) JavaScript • HTML/CSS
- **Software**: Git • XCode • Firebase • Google Cloud Platform • MS Office
- **Platforms**: Arduino & Raspberry Pi (IoT) • iOS App Development • Windows • macOS • Linux

## EXPERIENCE

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**NYU-X Research Lab**, New York, NY

*May 2019 – Present*

*Research Intern*

- Lead research project to develop robot-based learning system using OptiTrack motion capture system and Python to teach geometry to middle-school children at NYU-X Lab, College of Nursing
- Assist in research project to develop computer vision system for individuals with dementia to get dressed

**NYU EG1003 RAD Project**, Brooklyn, NY

*January 2019 – May 2019*

*Project Manager*

- Developed assistive navigation technology for visually impaired by implementing Raspberry Pi, Python, and Google Cloud in a team of 3 first-year students
- Managed 10-week design project by preparing milestone presentations, weekly reports, and demo video

## SELECTED PROJECTS

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**Tangible Activities for Geometry**, NYU-X Lab Research Project

*May 2019 – Present*

- Developed functioning interface for robotic-assisted geometry system using Python & MQTT by designing iOS mobile application and integrating RabbitMQ and OptiTrack Motion Capture at NYU-X lab

**SiteSeer**, NYU EG1003 RAD Project

*January 2019 – May 2019*

- Configured Google Cloud & Camera/Sensors to operate on Raspberry Pi to provide feedback such as using image recognition and learning by utilizing Google APIs to provide directions and write an algorithm
- Created iOS App: to obtain GPS location from the phone, provide live-feed, speech services (speech-to-text to get destination from user, text-to-speech to give user instructions) using Python

**Ping Pong: iOS App**, iOS Bootcamp

*December 2018 - December 2018*

- Proof of concept iOS game in Swift with features: 2-Player and Computer and background music

## ACTIVITIES

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- **Teaching Assistant** Work in the introductory engineering course (EG1003) in R&D & Prototyping Lab
- **CS Tutor** Tutor students in Python (CS 1114), Data Structures (CS1134), Linear Algebra & DE (MA2034)
- **PolyBots** Using Arduino & Raspberry Pi to build mini-robots for friendly competitions

## AWARDS

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