

# KEVIN CHEN

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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
- Relevant Coursework: Intro Python · Data Structures & Algorithms · Object-Oriented Programming

## SKILLS

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- **Programming:** (Advanced) Java · Python · Swift · C++ | (Basic) 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 – August 2019*

*Research Fellow*

- Led research project to develop robot-based learning system using OptiTrack motion capture system, Python, and iOS app to teach geometry to middle-school children at NYU-X Lab, College of Nursing
- Assisted 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 individuals 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

## 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

**iOS Ping Pong App**, iOS Bootcamp

*January 2018 – February 2019*

- Developed proof of concept iOS game in Swift featuring 2-Player and Computer, and background music

## ACTIVITIES

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- **Teaching Assistant:** Mentor students in introductory engineering course (EG1003) in open-ended projects
- **VIP Self-Drive:** Work on computer vision system to develop self-driving car
- **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