

## SAMUEL CHEUNG

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### EDUCATION

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#### Rutgers University School of Engineering

Graduation Date: May 2018

- Major in Electrical and Computer Engineering
- Academic Excellence Award

**3.658**

### EXPERIENCE

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#### KPMG

##### *KTech Engineering Intern*

- Work with a project team to help secure the launch of a website that uses IBM's API Connect.
- Finding and fixing bugs, testing the website, and creating tutorials on how to use the website.

#### Aresty Research Center for Undergraduates

##### *Research Assistant: Fall 2016-Spring 2017*

- Modeling blendshape heads to efficiently create detailed models of faces.
- Using OpenCV to read each frame and apply a tracker to key features of the face to estimate the shape of the head
- Creating a neural network to manipulate a static image of a face into a video of a moving face with emotion using an audio file
- Using Essentia for feature extraction of audio signals and Microsoft's Cognitive Toolkit for the construction and training of the network

#### TutorU

##### *Lead Developer: Spring 2016*

- Created a demo tutoring app with a software engineering team that connects struggling students and potential tutors looking to make extra money on campus.
- Developed the app in Android Studios and created a server in Digital Ocean using PHP and MySQL

#### Institute of Electrical and Electronics Engineers

##### *Member: Fall 2015-Spring 2016*

- Developed an autonomous robot with a team of other engineers to participate in a robotics competition to locate tennis balls and bring them to a goal in an allotted time
- Also participated in HackRU to make a delivery robot with facial recognition and movement interpolation for smooth delivery
- Hardware: Jetson Tegra K1, VEX Robotics, Arduinos
- Software: OpenCV and C++

### SKILLS

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#### Languages

- **Proficient:** Java, Python, C++
- **Familiar:** HTML/CSS, PHP, MySQL, MATLAB, SystemVerilog

### EXTRACURRICULARS

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#### Chinese Student Organization

##### *Culture Chair: Spring 2014-Spring 2017*

- Planned events to bring a social and cultural community for Asian Americans at Rutgers