

# Kaiyue Lu

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235 Yellowstone Drive, Charlottesville, VA 22903

## Education

University of Virginia, Charlottesville, VA

Aug 2017 - May 2019

M.S. Computer Science, **May 2019**, GPA: 3.85/4.0

Rutgers State University, New Brunswick, NJ

Aug 2014 - May 2017

B.S. Computer Science, May 2017, GPA: 3.61/4.0

Dean's List: Fall 2014 - Spring 2017

## Experience

**AEEC, LLC - Google Cloud Platform Intern - Alexandria, VA, May, 2018 - Aug, 2018**

- Implemented alert web application using Flask and deployed by GCP App Engine(Python, JS).
- Predicted flow rate/WQ elements using Prophet package in DataLab(Python).
- Used BigQuery, Data Studio to query table and build report using data from IoT devices(SQL).

**Rutgers University - Research Assistant - Piscataway, NJ, Sep, 2016 - May, 2017**

Implemented 3D visualization to realize environment casting and virtual environment setting simulation using C#, Visual Studio, Unity, and HoloLens.

**Bruce Arnold Foundation - Summer Internship, NY, Jun, 2016 - Aug, 2016**

- Created a tonal ear training application for musicians using C++.
- Designed the ear training application GUI to connect with MIDI I/O (C++, JUCE, MIDI I/O).

## Projects

**Internet of Trillions of Things(IOTT) Project; University of Virginia, Charlottesville, VA, Oct, 2018 - Dec, 2018**

- Implemented an Android SOS app on smart watch using Bluetooth to detect nearby devices.
- Sent and retrieved real-time locations of itself and nearby devices to/from BigQuery.

**Game Review Text Mining Project; University of Virginia, Charlottesville, VA, Oct, 2017 - Dec, 2017**

Categorized game reviews to different aspects and used sentiment analysis to assign different scores to each aspect, then calculated the total game score based on weights.

**Artificial Intelligence Projects; Rutgers University, Piscataway, NJ, Sep, 2015 - Dec, 2015**

- Designed autonomous path planning and object avoidance algorithms for bird flight patterns.
- Programmed user rating algorithm to predict user satisfaction based on previous ratings.

## Leadership

**Rutgers Cyber Security Club - Secretary - New Brunswick, NJ, Jan, 2016 - Dec, 2016**

Arranged RuSec workshop contents and speakers; sent emails and notifications to members.

## Technical Skills

Java, C++, Python, SQL, JavaScript, HTML, CSS, Android, C, R, MATLAB, PhotoShop, Premiere

## Relevant Courses

System Programming	Software Methodology	Internet Technology	Computer Security
Database Management	Data Structures & Algorithms	Artificial Intelligence	Software Testing