

# KEVIN YIU-WAH CHEUNG

Phone: 516-858-9768 ◇ Email: kcheung8@buffalo.edu

## EDUCATION

---

**Master in Computer and Information Science**  
University of Pennsylvania

August 2020 - May 2022

**Bachelor of Science in Computer Engineering**  
University at Buffalo, SUNY  
**GPA: 3.785/4.00**

August 2015 - May 2019

## SKILLS

---

Python, Java, R, Numpy, Pandas, Tableau, MySQL, MapReduce, PySpark, Tensorflow, Keras, Scikit-learn, OpenCV, Git, Javascript, Django

## RESEARCH EXPERIENCE

---

**Moisture Sensor by using mmWave Radar**

*Ub Embedded Sensing and Computing Lab Research Assistant*

*Januray 2019 - July 2019*

- Assist PhD candidate
- Collect and preprocess microacoustic-wave data by using Pandas
- Perform signal-processing and pattern recognition algorithms, including FFT and Spectrogram Analysis
- Refine and improve Neural Network models up to 90% accuracy in binary classification

## INTERNSHIP

---

**China Citic Bank International Limited (New York Branch)**

*IT Intern, Advisor Adam Vuong*

*January 2020 - Present*

- Modify and test database applications. Document programming and system changes. Database modeling and data structure principles, techniques and best practices.
- Assist in enhancing the business reporting modules for various departments
- Assist departments with SQL queries and macros in MS Access and database development methodologies
- Assist migration from MS Access to MS SQL

**IntelliGenesis LLC**

*Research Assistant, Advisor Guy Howard*

*June 2019 - August 2019*

- Work closely with AI leaders in a team of 5 to implement and evaluate clustering algorithms
- Develop an application for predicting APTs by using TTPs data
- Evaluate performance of unsupervised learning models (KMeans, Hierarchical Clustering) by using Dunn Index and Daives Bouldin Index

## SELECTED PROJECTS

---

**Intensive Data Computing Project**

2019 Spring

- Retrieve 20GB data from Twitter API, NY Times API and common crawl with provided keywords
- Preprocess data with natural language processing library NLTK
- Implement Hadoop word count and word occurrence algorithm and ran it on AWS EMR
- Visualize the result as words cloud in Tableau

**Android Group Chat Room Application**

2019 Spring

- Implement Group Messenger with Total and FIFO ordering guarantees
- Save messages into SQLite database
- Implement TCP socket programming