**Ji Wang**

[jiw1@andrew.cmu.edu](mailto:jiw1@andrew.cmu.edu)

# Education

**Carnegie Mellon University** Pittsburgh, PA

Master of Science in Information Technology *Aug.2017 ~ Aug.2018 (anticipated)*

**Nanjing University** Nanjing, China

Bachelor of Engineering in Software Engineering *Sept.2012 ~ June 2016*

# Experience

**SAP (China)** Shanghai, China

Software Engineer, full-time *Feb.2017 ~ Aug.2017*

* Developed backend of a contract account payable and receivable management SaaS application which migrates from On-premises to SAP HANA ***Cloud***platform in ***Agile***methodology (Scrum).
* Assisted Quality Assurance in extensive testing, detected and repaired bad code/design with empirical strategy, and from version control history.

**Embedded System Laboratory of Software Institute, Nanjing University** Nanjing, China

Research Assistant, supervised by Prof. Haitao Liu *Jan.2016 ~ June 2016*

* Designed an embedded mini car on the Arduino platform which can be monitored by either voice order or ***Android*** Device via Bluetooth.
* Explored a speech recognition toolkit (CMU Sphinx) and accommodated it into Mandarin environment.

# Selected Projects

# Flight Delay Warning System [course project of *Data Mining*] *Feb.2018 ~ Mar.2018*

# Developed a simulated system to analyze and predict whether a flight will be delayed or not.

# Retrieved the latest available 12-month On-Time Performance data from Pittsburgh Airport, trained it on logistic regression, pruned trees, LDA, QDA, and random forest before finally selecting *random forest* as our model for prediction based on *cross validation* and confusion metric evaluation.

# Online Banking System [course project of *Software Design*, *Web Services*] *Dec.2017 ~ Feb.2018*

# Developed a *Java EE* (Spring) web application to manage bank account, deposit a check (using web camera), transfer funds, apply for loan and repay loan in a *Microservice* architecture with *REST*.

# Utilized 128-bit *SSL encryption* and stored generated *hashed* nonce of data like password for security.

# UPMC Healthy Living Insurance [course project of *Cloud Computing*] *Sept.2017 ~ Oct.2017*

# Developed a simulated system to analyze and evaluate client’s lifestyle (e.g. three meals) to provide insurance plan options accordingly, with an accuracy rate of over 90 percent.

# When the meal image is uploaded to AmazonS3, a *lambda function* will be triggered, in which Amazon Rekognition API is called to extract <feature, confidence> label data sets, followed by facet filter applied to eliminate vague features, with a score assignment and evaluation as output.

# PC Desktop Game: Match 3 or more [similar to Pokémon Shuffle] *Aug.2014 ~ Oct.2014*

# Designed the database and developed client-to-server socket communication module.

# Collaborated with teammates in analyzing and designing the *lock scheme* to avoid matching conflicts on multiplayer mode.

# Skills

# Programming languages: Java (proficient), Python, R, C/C++, SQL (proficient), HTML, CSS, JavaScript

# Tools: Git, MS Office (proficient), MATLAB, LaTeX, Docker

# Honors & Awards

# **Outstanding Graduate of Nanjing University *2016***

# **People’s Scholarship *2014, 2015***