

Ji Wang

jiw1@andrew.cmu.edu

Education

Carnegie Mellon University

Master of Science in Information Technology

Pittsburgh, PA

Aug.2017 ~ Aug.2018 (*anticipated*)

Nanjing University

Bachelor of Engineering in Software Engineering

Nanjing, China

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 Amazon S3, 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