Chengyue Gong

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EDUCATION

Washington University in St. Louis, St. Louis, MO **Expected Jan. 2020**
M.S. in Computer Science, GPA: 3.77/4.0
Aalborg University, Aalborg, Denmark **Sept. 2016 – Jan. 2017**
Guest Program, Internet Technologies and Computer Systems
Zhejiang University, Hangzhou, China **Sept. 2014 – Jul. 2018**
B.A., English Language and Literature, GPA: 3.63/4.0

RELEVANT COURSES

Data Structures and Algorithms (Coursera), Mobile Application Development, Computer Networks, Introduction to AI, Operating System Organization, Database Management System, System Security, Rapid Prototype Development and Creative Programming, OOAD, Assembly Language Programming, Computer Organization

SKILLS

C++, Java, C, Python, Swift, HTML/CSS, JavaScript, Assembly, SQL, Matlab, Latex, ABAP

EXPERIENCE

Developer Intern, SAP Innovative Business Solutions, Shanghai, China **Aug. 2017 – Jun. 2018**

- Performed authorization tests for established applications and reported bugs for debugging
- Completed two training projects related to sales orders using ABAP (Advanced Business Application Programming) language and BOPF (Business Object Process Framework)
- Fixed VH (Visual Harmonization) issues and several other software bugs in the system

PROJECTS

iOS Application Development - Instaurant, St. Louis, the United States **Nov. 2018 – Dec. 2018**

- Designed and developed an iOS application for accessing restaurants information using **Swift**
- Utilized **ARKit**, **Firebase**, Yelp API, MapKit, WebKit, etc. during the development
- Displayed the restaurant information on AR (Augmented Reality) camera when the camera is aiming at a storefront

A Supervised Learning Approach to Pronoun Resolution, Hangzhou, China **Nov. 2017 – Jun. 2018**

- Applied a supervised learning approach to pronoun resolution of the Chinese word "那(*na*, that)" by transforming the pronoun resolution problem into a binary classification problem
- Collected data from CCL (Center for Chinese Linguistics of Peking University) corpus and completed NLP tasks such as part-of-speech tagging with NLP tools for Chinese including **Stanford Corenlp**, **NLPIR**, and **LTP**
- Selected nine features for training set and testing set and generated them with automatic and manual annotation using **Python**
- Trained the data with three classifiers, namely SVM (Support Vector Machine), NB (Naïve Bayes) and KNN (K-Nearest Neighbor), and tested their performance

WiFi Probe Data Collection System, Aalborg, Denmark **Sept. 2016 – Jan. 2017**

- Collected mobile wireless data related to public transport buses using Raspberry Pi and transmitted it to the server, to measure the number of people on a bus and optimize bus dispatch plans
- Established secure communication between the server and sensors using SSL/TLS implemented in **Java**
- Ensured security, anonymization, data integrity, scalability, and reliability of the system

Greenhouse Simulation System, Aalborg, Denmark **Sept. 2016 – Jan. 2017**

- Developed an application with a client GUI using **JavaFX** and a server simulating a greenhouse
- Established communication between the client and the server using TCP implemented in **Java**, which enables the client to adjust or get temperature and humidity through sending requests to the server
- Implemented observer design pattern to reduce coupling and utilized **JUnit** framework to test the application