

# CHENGYUE GONG

## FULL-STACK DEVELOPER

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## EDUCATION

### Washington University in St. Louis

St. Louis, MO

Aug. 2018 - Expected Jan. 2020

M.S. in Computer Science

GPA: 3.77/4.0, Merit-based Scholarship

### Aalborg University

Aalborg, Denmark

Aug. 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

## COURSES

C Programming

Java Programming

Data Structures and Algorithms (Coursera)

Assembly Language Programming

Computer Organization

OOAD, Test and Verification

Operating System Organization

Mobile Application Development

Introduction to Computer Networks

Introduction to AI (in progress)

Database Management System (in progress)

System Security (in progress)

Rapid Prototype Development and Creative Programming (in progress)

## SKILLS

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

## EXPERIENCE

### Software 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 - Restaurant

St. Louis, MO | 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 Java Swing 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