

JING QI

119 Diana Ave, Syracuse, NY 13210 · (315)991-0258 · jq101@syr.edu · jingqisu.github.io

EDUCATION

Syracuse University, College of Engineering & Computer Science, Syracuse, NY
MS., Computer Engineering, Expected May 2019
Direction: Software System
GPA: 3.82/4.00
China University of Geosciences, College of Information & Engineering, Beijing
B.E., Electronic and Information Engineering, June 2017

TECHNICAL SKILLS

Languages:

Python, C++, C;
Competence: C#, JavaScript, HTML, SQL, Go, Java

Tech Stacks:

.NET Backend Framework,
HTML+CSS+JS Frontend Framework,
Windows Presentation Foundation,
Network Programming,
Microchip Programming
Competence:
Amazon Web Service,
Django (a blog website: 18.216.116.220),
Scrapy, QT, Android Programming,
Algorithms in Artificial Intelligence

Operating Systems:

Windows, Ubuntu

Software:

Visual Studio, VS Code, PuTTY, WinSCP,
Virtual Box, VMware, PyCharm,
Android Studio, Wireshark, Docker

COURSEWORKS

Software Modeling and Analysis
Object Oriented Design
Computer Security
Internet Security
Internet Programming
Introduction to Cryptography
Introduction to Artificial Intelligence
Advanced Computer Architecture

AWARDS

Graduate Student Grant, Syracuse, NY
30% Tuition Scholarship, Sep. 2017 – May. 2019 (Expected)
Academic Scholarship, Beijing, China
Top 2% students, Sep. 2016 – May. 2017

INDEPENDENT PROJECTS

Implement a VPN from Scratch with C:

- Programed with TUN/TAP to create virtual network interface
- Used SSL based on PKI to encrypt tunnel
- Built a C/S communication mechanism by socket programming

Code Repository Client/Server System with C++:

- Designed check in/out, version, browser modules in OOD
- Developed a NoSQL in-memory database with C++
- Designed the GUI with C#, the .NET WPF, and C++/CLI
- Designed a C++ communication system based on sockets

Build Server System with C#:

- Designed the system and write an OCD
- Used MSBuild to build the uploaded C# code
- Designed a process pool to handle the concurrency
- Implemented a test server for unit testing

Wox Plugin Development – Recall:

- Design the plugin logic followed by Wox API document
- Uploaded to the public Wox plugin store and 1k+ downloaded.

Twitch Data Analysis:

- Built a web crawler with Scrapy and deployed it on AWS
- Used NLTK module on Python for semantic analysis
- Visualized the data with Bokeh on Python

Automatic Number Plate Recognition (NPR) System:

- Built STM32 microchip programs for image capturing and sending
- Wrote an NPR algorithm with OpenCV on C++
- Did POI detection by SVM, OCR by ANN
- Developed GUI and serial-port communication Program with QT

Web-based eBook Reader:

- Designed web client with HTML5, CSS3, JS
- Developed a server using Asp.Net Core MVC

Image recognizer based on Deep Learning:

- Developed a neural network model from scratch with Python
- Vectorized logistic regression's gradient output by Numpy

PUBLICATION

Deng CJ, Qi J, Li M. Application Progress of Signal Clustering Algorithm, Communications in Computer and Information Science, July 2016

EXPERIENCE

Syracuse University, Syracuse, NY

Teaching Assistant for Internet Security, Jan. 2019 – May. 2019 (Expected)

- Held office hours
- Graded students' lab reports
- Participated in writing "Instructor Manual" for SEED Labs

China Resources Microelectronics Limited, Wuxi, Jiangsu, China

Intern of IT Department, Jul. 2015 – Aug. 2015

- Developed a work flow management software named TOBE in C# with WPF
- Written document for TOBE