

Yidong Fang

SOFTWARE DEVELOPMENT ENGINEER INTERNSHIP

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Education

University of Wisconsin-Madison (UW-Madison)

MASTER OF SCIENCE IN COMPUTER SCIENCES

Madison, United States

Sep. 2019 - Dec. 2020 (anticipated)

University of California, Los Angeles (UCLA)

SUMMER RESEARCH PROGRAM

Los Angeles, United States

Jul. 2018 - Sep. 2018

Southern University of Science and Technology (SUSTech)

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND TECHNOLOGY

Shenzhen, China

Sep. 2015 - Jun. 2019

- Cumulative GPA: 3.87 / 4.00 (Ranked 1/98)

Work Experience

Tencent Inc./TEG/AI Lab

RESEARCH ENGINEER INTERN

Shenzhen, China

Oct. 2018 - May. 2019

- Implemented a face anti-spoofing framework with CNN and LSTM by focusing on the textual features as well as temporal features
- Developed an automatic tool for deep learning training data sets preparation; Features include cleaning and merging data sets cleaning and creating high-efficiency training file

UCLA/Department of ECE

RESEARCH INTERN

Los Angeles, United States

Jul. 2018 - Sep. 2018

- Investigated and implemented several new CNN architectures for medical(brain) image segmentation, potentially serving as an important component of a pipeline in an auto-diagnosing system.

Honors & Awards

- 2019 **the Magna Cum Laude Graduate (~2%)**, Undergraduate Commencement for SUSTech *Shenzhen, China*
- 2018 **Bronze Medal (~3%)**, HUAWEI Codecraft Contest *Shenzhen, China*
- 2018 **UCLA-CSST 2018 Scholarship (~9%)**, UCLA - Cross-disciplinary Scholars in Science and Technology (CSST) *Los Angeles, U.S.*
- 2017 **Second Prize (~5%)**, National Undergraduate Electronic Design Contest *Dongguan, China*

Projects

CARP Online Challenge System

PROJECT MANAGER & DEVELOPER | TOOLS: JAVA SPRING BOOT, BOOTSTRAPS, PYTHON, DOCKER, MONGODB, NGINX

Sep. 2018 - Oct. 2018

- Built and maintained an online system to host and evaluate the quality of students' solutions and their algorithm efficiency when they submitted code to solve the AI NP-hard Problem CARP (Capacitated Arc Routing Problem)
- Handled over 150 student users, 4 teaching assistant users and over 1000 solution submissions in total

SNA4Slack

TEAM LEADER & DEVELOPER | TOOLS: NODE.JS, VUE(JAVASCRIPT), MYSQL, PYTHON, NGINX

Jul. 2018 - Sep. 2018

- Designed and developed a RESTful web application for Social Network Analysis (SNA) of a commonly used work cooperation website, Slack
- Created graphs reflecting people's relationships automatically by Analyzing the chat content in the public chat channels
- Integrated the Tencent Cloud sentimental analysis service API to enable the application to better depict relationships

GNU Privacy Guard(GPG) based Instant Message Client

TEAM LEADER & DEVELOPER | TOOLS: JAVA FX

Oct. 2017 - Dec. 2017

- Built an across-platform Graphic User Interface (GUI) client that enables users to send GPG-encrypted HTML message to others via email protocol
- Designed a user-friendly function of retrieving and publishing GPG keys on public key servers

Visible Light Indoor Positioning System

TEAM LEADER & MODEL DESIGNER | TOOLS: C++, PYTHON, ESP8266 IOT CHIP SET

Aug. 2017

- Built an indoor positioning system which extracts location information according to visual lights, using only three LED lights and one light sensor
- Applied Frequency Division (Fourier Transform) and Support Vector Machine Regression Algorithms
- Achieved a precision of five centimeters

Skills

Programming Python, Java, C, C++, SQL, JavaScripts, Node.js

DevOps Docker, Bash Scripting

Other Tools or Framework Git, MXNet, Tensorflow, Vue, MySQL, PostgreSQL