Yuchuan Gou

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Education Background

University of Florida M.S. in Computer Science GPA: 3.55/4 **08/2016--Present**

Graduate Courses: Advanced Data Structure, Internet Traffic Measurement, Human-Computer Interaction

Shanghai Jiao Tong University, China B.S. in Information Engineering GPA: 82/100 **09/2012--07/2016**

Relevant Courses: Mathematics, Data Structure, Operating System, Computer Network, Data Base

Work & Research Experience

OPS Web Application Developer (20 hours per week) **11/2016--Present**

Information Technology, Institute of Food and Agricultural Sciences, UF

- Building a mobile web geo-locating fertilizer ordinance app for Green Industry in a group of two. Applied Google Maps API to display the prototype fertilizer map of Florida. Designed and built mobile web UI with Bootstrap and Material Components. Analyzing user requirements and building GIS database now.

Research Assistant on Distributed System "Spark" **10/2014--07/2016**

Institute of Wireless Communication Technologies, Intelligent Internet of Things, SJTU

- Deployed Spark and Hadoop on an 8-node server cluster and made environment maintenance
- Research on distributed graph algorithm (Topological sorting, Dijkstra) (GraphX, Pregel API, Scala)
- Implemented Louvain community detection algorithm on Spark, performance better than Java standalone program, efficiency can be better with larger Spark cluster (GraphX, Pregel API, Scala)
- Built a large graph analysis system, implemented graph average path length algorithm (Pregel API), clustering coefficient algorithm(GraphX) and link prediction (using logistic regression in MLlib as binary classifier). Also integrated with Python data clean module and Gephi graph visualization.
- Built a movie recommending system: utilized collaborative filtering library in MLlib and MovieLens dataset; realized basic web display by Python Flask framework.

Website Designer (10 hours per week) **10/2013--03/2015**

Department of Publicity, SJTU

- Designed and built webpage templates for Media Kiosk using HTML, CSS, JavaScript and Bootstrap. Wrote Python script for data downloading and cleaning automatically. Edited pictures with Photoshop also.

Projects

Intelligent Rescue Vehicle (Group Project, **C**, **Java**, **Android**)

- Completed an intelligent rescue vehicle (embedded processor MSP430), realized motor drive control, Bluetooth communication and automatic patrol with range sensors.
- Completed video recording and transmission through wireless network by using Android camera on vehicle
- Realized Bluetooth remote control and wireless remote monitor on Android control devices.

A Sports Analysis APP (Individual Project, **Java**, **Android**)

- Utilized accelerometer data to realize pedometer and used LIBSVM library to train data and predicting sports type. Contained a display page of all-day sports data, phone-using time and etc.

Translator on desktop (Individual Project, **Java**, **Swing**)

- A translating system that help two different language speakers communicating. Utilizing Microsoft Translator API and Java Swing to realized function and UI components.

Multimedia Player on Windows (Individual Project, **C++**, **MFC**)

- A multimedia player with functions of audio and video play, lyric display, play control and auto power-off.

Snake Game on FPGA Board (Individual Project, **VHDL**)

- Realized a VGA interface, implemented Snake game on FPGA board, realized pathfinding algorithm.

Professional Skill & Activities

- Familiar: Python, Java, C++, Linux, git, Markdown; Having experience: Spark, Scala, Android, Flask;
- Languages: English (TOEFL ibt:95,CET6:518), Mandarin; Interests: Soccer, Photography, Tennis