Yuchuan Gou

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Seeking a **Software Engineering full-time job** in a leading technology company

Education Background

University of Florida M.S. in Computer Science **GPA**: 3.5/4 **08/2016--Present**

Graduate Courses: Advanced Data Structure, Dialog System, Analysis of Algorithms

Shanghai Jiao Tong University, China B.S. in Information Engineering **GPA**: 3.3/4.3 **09/2012--07/2016**

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

Work & Research Experience

Deep Learning SDE Intern, **Theano** team, **Intel** **05/2017—08/2017**

- Wrote 2 Theano operations with Intel **MKL** library, wrote "theano-perf" module for testing hardware performance (all contributed to **Intel/ Theano** Github repo). Optimize CNN code for Intel's deep learning customers (Broad Institute, USF, Auen). Researched on Theano compilation phase to decrease compile time.

Campus Web Application Developer, Information Technology, UF/IFAS **11/2016--05/2017**

- Built a mobile web geo-locating app for Green Industry. Applied Google Maps API to display the fertilizer map of Florida. Designed and built responsive web UI and map components with **Materialize**, **JavaScript** and **jQuery**. Used **ASP.NET** as backend. https://ffl.ifas.ufl.edu/Fertilizer/
- Added bookmark function with **JavaScript** and **ASP.NET**. https://ffl.ifas.ufl.edu/butterflies/

Campus Research Assistant on "Spark", Intelligent Internet of Things, SJTU **10/2014--07/2016**

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

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.

P2P file sharing software (Group Project, **Java**)

- Realized P2P file sharing core like BitTorrent, used multi-thread, socket connection.

www.dlranking.com (Individual Project, **Python**, **Django**, **JavaScript, Bootstrap)**

- Built a website with Django to rank popular deep learning frameworks. Real-time gathering frames' info by posting to Github API, storing data in sqlite3 database , providing info and chart for users.

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**, utilizing Microsoft Translator API)

Multimedia Player on Windows (Individual Project, **C++**, **MFC,** lyric display, play control)

Professional Skills

- Languages: Python, Java, C++, JavaScript, Scala, SQL, HTML, CSS;
- Frameworks: Theano, Spark, Android, Bootstrap, jQuery, Django, Junit, Swing, MFC;