Yuchuan Gou

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

Education Background

University of Florida   M.S. in Computer Science   **GPA**: 3.4   **08/2016--05/2018**

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

Shanghai Jiao Tong University (top 4), China   B.S. in Information Engineering   **GPA**: 3.3   **09/2012--07/2016**

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

Professional Skills

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

Work & Research Experience

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

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

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

- Built an official website for Florida plants and butterflies. Realized login, bookmark, display, edit functions based on SQL database with C#. (**jQuery**, **ASP.NET MVC, C#, SQL Server**) https://ffl.ifas.ufl.edu/butterflies/
- Built a geo-locating web app to display the fertilizer map of Florida. Applied **Google Maps API** and built responsive web UI and map components with **Materialize**, **JavaScript**. https://ffl.ifas.ufl.edu/Fertilizer/

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

- Implemented Louvain **community detection algorithm** on **Spark**, performance better than Java standalone program, efficiency can be better with larger Spark cluster. (**Scala**, **GraphX**)
- 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 Gephi graph visualization. (**Scala**, **GraphX**, **MLlib**)
- Built a movie **recommending system** on **Spark**: utilized collaborative filtering library in Spark and MovieLens dataset; realized basic web display by Python Django framework. (**Python, Django**, **Scala**, **MLlib**)

Projects

Dialog System for Shopping Mall (Group Project, **Python, NLTK**)

- Realized a dialog system to speak with customers and provide them answers and recommendations. Including speech recognition, text parser, natural language understanding, SQL data base, ML prediction.

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

- Used multi-thread, TCP connection to realize P2P file sharing core, implemented P2P choke & unchoke mechanism.

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.

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

- Completed an intelligent rescue vehicle (embedded processor MSP430), realized motor drive control, Bluetooth remote control on Android devices and automatic patrol with range sensors.