Xin Xu

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EDUCATION

University of California, Los Angeles – Los Angeles, USA   Sep 2016 – Jun 2018

Peking University – Beijing, China   Sep 2013 - Jun 2016

Master in Computer Science – Pilot PKU-UCLA 3+2 Program (3 years in PKU for Bachelor, 2 years in UCLA for Master).

Expected Graduation Date: Jun 2018.

Major GPA: 3.67 out of 4.0 (PKU).

Programming Skills: C++, Java, Python, JavaScript, Ruby on Rails, Mysql, Bash scripts, Spark, Unity.

Interested in: Web Development, Machine Learning, Network Protocol.

INTERNSHIP EXPERIENCE

Amazon, Software Engineer, Beijing, *Amazon Auto Pickup Service*   Jun 2017- Sep 2017

Data analysis and data mining, backend/frontend web development (Python, Java, JavaScript, Spring MVC, AWS, etc)

➢ Using python to do geo-data analysis and mining, thus optimizing geo data updating strategy in system to increase accuracy.

➢ Developing the metrics report tool suite to automate the metrics report generation progress, involving AWS service, distributed job scheduler, etc. Using echarts to develop a friendly UI.

➢ Using Amap API to develop the truck trajectory visualizer tool to show the route plan. Users can interact with the visualizer tool to modify the route.

RESEARCH EXPERIENCE

Wireless Mesh in the NDN (Named Data Networking)   Sep 2016- May 2017

Advisor: Professor Lixia Zhang, *Internet Research Lab, UCLA*

➢ System design for improving mesh forwarding performance in NDN stack, combining geo-forwarding and VectorSync.

➢ Extending the NFD forwarding strategy and using NDN-SIM for simulation. (Using C++, Boost, Waf)

PROJECT EXPERIENCE

Prediction of Purchase Intention: Jingdong contest   Mar 2017 – Jun 2017

➢ Building prediction models that leverage data mining and machine learning algorithms to anticipate consumers' purchase intentions.

➢ Data analysis, data cleaning and using two kinds of feature extraction methods. Comparing different models' performance, including naïve bayes, logistic regression, gradient boosting decision tree, random forest, etc.

A c++ Webserver   Jan 2017 – Mar 2017

➢ Using Boost with GTest Unit Testing, GCov Test Coverage, Bash Integration Testing, and Nginx-inspired parsing of configure files - modeling the HTTP Restful API

➢ Features: asynchronized, multithreading, a proxy with cache, a python application server, HTTP compression, reconfiguration without restarting, sessions and authentication and etc.

UCLAevents – A Web Application for UCLA students   Sep 2016 – Nov 2016

➢ Using ruby on rails, to develop a web application for UCLA students to be informed the current campus events.

➢ Using Tsung to do load testing and optimize the app's performance and scalability to face large data set.

MobileInsight Extension   Sep 2016 – Nov 2016

➢ A web framework to conveniently and efficiently query very large datasets of MobileInsight.

➢ Involving Spark sql, Mysql, Java backend development, Spark cluster and frontend development.

China Digital Health Boot Camp — Stanford & PKU   Aug 2016

➢ An VR app to help people with risks of developing neck problems exercise in order to improve mobility and health.

➢ Importing both AR and VR technique to have an interactive experience. Developing in unity platform, using vuforia SDK. For both mobile phone player and Gear VR player.

NachOS – A Light-weight Operating System   Sep 2015 – Dec 2015

➢ Realized and Optimized the light-weight operating system NachOS running virtually.