

YAN LU

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EDUCATION

Columbia University

MS in Electrical Engineering, GPA: 4.0

New York, NY

Expected Dec 2016

Relevant courses: Algorithm, IOT, Big Data, Computer Network, Cloud Computing, Database, Machine Learning

Australian National University

BE in Electronics and Communication, GPA: 4.0 First Class Honors & University Medal Awarded

Canberra, Australia

Sep 2013-Jul 2015

Awards: University Medal; Dean's Prize; CECS International Undergraduate *Scholarship*

Beijing Institute of Technology

BE in Science & Technology of Electronics, GPA: 3.98

Beijing, China

Sep 2011-Jul 2013

Awards: *Meritorious* Winner Mathematical Contest in Modelling 2013

TECHNICAL SKILLS

Programming language: Java, Swift, Python, C, C++, HTML, SQL

Data Science: Hadoop, Spark, Pig, Hive, Hbase, Oozie, Mahout

Internet of Things: AWS (EC2, DynamoDB, Kinesis, Machine Learning), UNIX, Azure, Parse, Raspberry Pi, Intel Edison

Engineering: Mathematica, Matlab, Verilog HDL, Assembly, RAPID, Ltpspice, Multisim, AutoCAD

WORK EXPERIENCE

SK8 Pty Ltd (a member in Google Partners)

Canberra, Australia

Android Front End Developer

Nov 2014-Jun 2015

- Developed an ANU Enabled Parking App to help people with disability finding enabled parking spot in ANU
- Built 'SK8 Board' app, which used Parse to assign project and count working time, to help SK8 inner work management
- Responsible for barcode scan package for 'YunDa' app, which helps YunDa Express to track packages
- Contributed to Shelf App, an App that provide exposure for new online stores, in terms of chatting function

Nanjing Fata Machinery Co., Ltd.

Nanjing, China

Engineering Assistant

Jun-Jul 2014

- Developed an embedded program to realize intelligence and synchronization of robots running simultaneously in casting line
- Tested the program on the actual machine to debug and reconcile various parameters
- The system is now used by Nemak Nanjing, the largest vehicle engine manufacture in the world

PROJECT EXPERIENCE

Smart Food Delivery (a Smart Device)

New York, NY

Columbia University

Sep 2015-Dec 2015

- Led a team of 4 to develop a Smart Food Delivery Box, which provides Amazon Locker with food heating ability, to keep food warm and further improve lunch experience for busy people, like students and officers
- Took charge of developing an iOS app, building a database on Parse, and designing the circuit of the box
- The project was selected as the "Best Project" by Prof. Fred Jiang among the IOT course
- **Stack:** Swift, Python, Unix, REST API, HTML, Raspberry Pi

MTA Subway Trip Planner

New York, NY

Columbia University

Jan 2016-Present

- Built a connected subway system that can optimize subway rides and provide subway transfer suggestion for phone user
- **Stack:** AWS (EC2, DynamoDB, Kinesis, Machine Learning), Python, UNIX, REST API, Swift

Pedestrian Tracking for ATC Shopping Mall (a Big Data Analytics Project)

New York, NY

Columbia University

Oct 2015-Dec 2015

- Led a team of 3 to analyze pedestrian tracking data gathered in ATC shopping mall by big data analytics tools and methods
- Responsible for project scheduling, data virtualization and provided sales and security strategies based on virtualized data
- **Stack:** Hadoop, Spark, Pig, Mahout, Matlab

Server-Client Chat Room

New York, NY

Columbia University

Sep 2015-Oct 2015

- Built a single server multiple client chat room that contains chat, security login and status report function
- **Stack:** TCP/IP, Python, Socket

LEADERSHIP & ACTIVITIES

President of Beijing Institute of Technology Student Association (ANU division)

May 2014-May 2015

Group leader in group of 6 to invent 'Loss Prevention USB Flash Drive'

Jul 2014-Nov 2014