

JUNLI YE

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EDUCATION

University of California, Berkeley

Master of Engineering in Electrical Engineering & Computer Science

- Concentration: Data Science & Systems

Berkeley, America

Aug 2017 – Present

Zhejiang University

Bachelor of Engineering in Computer Science & Technology

- Overall GPA: 3.92/4.00
- Awards: First-class Academic Scholarship (Top 5%); Meritorious Winner in Mathematical Contest in Modeling (MCM), COMAP; Excellent Graduate of Zhejiang Province

Hangzhou, China

Sep 2013 – Jun 2017

EXPERIENCE

Ant Financial, Alibaba Group

Java Engineer Intern

- Used MVC framework to build a visualization website called Global Eye, an internal tool in Alibaba Group for analyzing the international consumption data on Alipay
- Responsible for constructing backend program to fetch data from the database according to different filtering options and permission system

Hangzhou, China

May 2017 – Jun 2017

University of Alberta

Research Intern

Topic 1: Machine-Learning Based Toxin Classification

- Used bioinformatics toxin classification to reduce costs for pharmaceuticals by replacing complex wet lab biological experiments; investigated machine learning methods based on the change curve of cell number in toxicant solution
- Introduced a shapelet transformation for feature extraction and random forest for classification, and attained 94% classification accuracy, a 5% improvement from state-of-the-art papers; further improved shapelet transformation by introducing discretization of attributes, and raised the accuracy by another 3%
- Presented research findings at Banff Venture Forum 2016, Canada's premier company financing event

Edmonton, Canada

Jul 2016 – Sep 2016

Topic 2: Intelligent Irrigation Control System Design

- Assisted a startup in designing a water-saving irrigation sprinkler by providing mathematical models and control algorithms that could counter the effects of wind, avoid out-of-bounds spraying, and attain uniform water distribution
- Individually implemented the algorithms in C; assisted a colleague to deploy it on the Arduino control module
- Optimized the control algorithms, improving the efficiency by 7.3 times and the precision by 2.5 times
- Submitted a paper to Catena as a co-author

PROJECTS

Air Rope Jumping APP

Zhejiang University

- Developed a rope jumping counter APP on Apple Watch that helps users to count the number of jumps and trips
- Developed a virtual rope jumping APP on Android that enables users to do rope jumping with a cellphone. The app simulates the sound of swinging rope synchronously to improve sense of reality, and also count for users. Gained 10,000+ downloads on 360 APP Market
- Tested machine learning methods to distinguish rope jumping from other motion and attained 90% accuracy, and built a [demo](#) to prevent users from fabricating data by doing other motion (available on personal website)

Hangzhou, China

Dec 2015 – Apr 2017

Data Mining for E-business Data

Zhejiang University

- Individually constructed crawler program to collect sales data from Alibaba platform; used d3 to visualize sales data by a self-designed dynamic interactive streamgraph to facilitate data analysis
- Introduced Granger causal relation testing to analyze association and correlation factors for tracking among different products in online stores

Hangzhou, China

Apr 2015 – Jun 2016

ADDITIONAL INFORMATION

Skills: Proficient in Java, C/C++, MATLAB, SQL, familiar with Python, TensorFlow

Languages: Native in Chinese, Cantonese, proficient in English (TOEFL 108; GRE V159 Q170 AW4.0)

Interests: Composing Music, Guitar, Drums