Kai Ling

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EDUCATION

Huazhong University of Science and Technology(HUST) Wuhan, China Bachelor of Science in Computer Science (CS) and Technology Aug. 2015 - Present

GPA: Overall GPA: 3.85/4.0 (Ranking: 7%)

Core Courses: Soft Engineering (96) / Higher Mathematics University Physics (99) / Linear Algebra (94) / Probability Theory (92) / Discrete Mathematics (90) / Signal and Linear System (94) / Calculus (93) / Assembler Language Programming (88) /

Personal Character: Piano soloist in Symphony Orchestra of HUST; Piano pedagogy in Chorus of HUST

AWARDS

TIVITADO	
1. Scholarship for Freshmen (1 out of 120), HUST	2015
2. National Scholarship (2 out of 120), HUST	2017
3. Model Student of Academic Records (5 out of 120), HUST	2017
4. Awarded Outstanding Student (4 out of 120), HUST	2017
5. First prize in International Art Federation Music Competition	2014
6. First prize in Asia-Pacific Youth Piano Competition	2009
RESEARCH EXPERIENCES	

Research Assistant | MSSN Lab | Purdue

West Lafayette, United States

Advisor: Chunyi Peng, the Assistant Prof., Purdue;

Mobility Management Map

July. 2018- Nov. 2018

- Develop an online service to visualize handoff configuration data to better support mobility research;
- Offered an user-friendly way to show handoff configurations of the cells in the area of user interests;
- Enabled a complete cycle of data collection, analysis and visualization, along with MMLab;
- Provided spatial statistics of handoff policies in an area;
- Wrote a poster accepted by IMC'18;

Research Assistant | Deep Learning Group | HUST

Wuhan, China

Advisor: Kun He, the Prof., HUST, visiting scholar in Cornell University;

A approach to Estimate the Dimension of The Deep Manifold

July. 2017- Nov. 2017

- Observed the dramatic drop for the singular values of the fully connected layers or a single feature map of the convolutional
- Proposed a singular value decomposition (SVD) based approach to estimate the dimension of the deep manifolds for a typical convolutional neural network;
- Discovered that the dimensions of different categories are close to each other and decline quickly along the convolutional layers and fully connected layers.

PUBLICATIONS

1. Kai Ling*, Jiaqi Xu*, Zhuo Jiang*, Haotian Deng, Chunyi Peng, "MMMap: Mobility Management Map of Global Carriers Networks At Your Hands", ACM Internet Measurement Conference (IMC'18) Poster, accepted. (*co-first author).

SELECTED COURSE PROJECTS

Project Leader | A Managing System For Reservation To Register Online | HUST

Sept. 2017 – Nov. 2017

Course: Software Engineering

- Built a reservation system to register online in hospitals solely with many functions, following the standards in Software Engineering such as data flow diagram and IPO sheet;
- Utilized the structured analysis and OOA to analyse the requirements of the doctors, patients and the managers of the hospital;
- Used the C to build the system and the code scalability is good;
- Concluded 51 pages report to summarize the analysis and proof;
- Obtained a high score of 96 in the project evaluation, ranking the Top 3 in all teams;

Project Leader | A Chat Software Based On UDP And TCP Protocol | HUST

Nov. 2017 – Jan. 2018

Course: Computer Network

- Proposed many important functions solely, such as chatting online and offline, supporting more than one group to chat, transporting files based on UDP protocol; the software was multi-users by using multithreading;
- Improved the UDP protocol to realize the reliable data transmission;
- Obtained a high score of 89 in the project evaluation;
- Concluded 78 pages report to summarize the analysis and proof;

LEADERSHIPAND ACTIVITIES

Vice Monitor | General Committee Office in Center of Art Education, HUST

Sept. 2016-Sept. 2017

- Hosted bi-weekly class meetings;
- Designed organized more than 10 events and activities, including tours, contests and discussions;
- Organized the Excellent League Activity and won the first prize in school (10 out of 70 groups); Recognized for the Outstanding Student Leadership in HUST, given to 10 students out of 120;

Piano Pedagogy | Chorus of HUST

Sept. 2016-Present

- performed in more than 20 concerts
- Appraised by many professors including Gregory Wait(the dean of Department of Music in Stanford University);
- Entered national competition finals in University Students Arts Festival;
- volunteered in Internet innovation and Entrepreneurship Competition in 2016;

- **Programming Languages**: Proficient in C/C++/JAVA, Assembly Language, Matlab;
- Language: Mandarin (Native), English (Fluent, rich experiences in scientific English reading and writing);
- Piano Playing