Ang (Carl) Li

2468 Puyuan Road, Harbin, Heilongjiang 150022, China

+1 (858) 214-9487 ⋄ hkyla@me.com

EDUCATION

Northeastern University (China)   September 2015 - June 2019
Bachelor of Engineering, Expected June 2019   *Major in Software Engineering (International, English)*
Major GPA: 4/5   Overall GPA: 3.5/5

The courses of impacted major Software Engineering (International, English) are all provided in English and from top universities around the world, such as University of Queensland, Australian National University and University of Glasgow. Students who can't meet our academic standard or fail in 2 or more courses are eliminated every year.

University   March 2018 - June 2018
Exchange Undergraduate   *Major in Computer Science and Engineering*
GPA: 3.86/4

EXPERIENCE

Research Assistant, Team Lead - **Company**   September 2017 - Present
· Established a domain tracking system for the recommender system lab of NEU (China), based on recommender systems and web crawlers.
· Separated `#hashtags` from original tweets as independent features and increased the precision on top-N recommendation of tweets through attention-based convolutional neural network. Work result disclosed as Chinese patent [1] in *PUBLICATIONS* section; model included as part of project *LibRec*, a leading library for recommender systems with 2,000 stars on GitHub. Achieved 70% increase of precision comparing to Latent Dirichlet Analysis, 75% increase to TF-IDF.

Algorithm Engineer Intern - **Company**   July 2018 - August 2018
· Used multiple binary-output TextCNN with pre-trained word embeddings to hit the precision of 87% in short text classification; 90% performance increased compared to the old Naive Bayes model. Reduced training time through distributed TensorFlow.
· Model delivered online as part of knowledge graph in Shenma Search Engine serving 300 million Alibaba UCWeb's users.
· Accelerated inference on 1 billion short texts from 4 hours to 2 hours by distributing computation on a 16-GPU cluster.
· Internship performance reached 3.75 in KPI, highest level of performance in Alibaba Group.

Java Web Developer (Remote) - **Company**   May 2017 - July 2017
· Solved the problem in synchronization of item count between user orders and merchant records.

Research Intern - **Company**   April 2016 - October 2016
· Rebuilt the UI of an iOS app using ReactiveX, a suite of API for asynchronous programming, in 5,000 lines of code.
· Reduced time of OpenGL rendering per image from 11.9 seconds to 8 seconds, and accelerated image transfer in complicated network environment.

iOS Developer - **Company**   March 2016 - June 2016
· Doubled development efficiency through developer-friendly encapsulation of Core Data API and agile development.

Startup Partner, iOS Development Lead - **Company**   August 2015 - May 2016
· In charge of development of iOS app *VSpace*, from the first line of code to deployment on App Store, including networking, responsible UI customization and SQLite data storage. 7,000 lines of code in total.

COURSEWORK PROJECTS

Team Lead - **Project**   UCSD, April 2018 - June 2018
· Exceptionally appraised as the only team using error monitoring and e2e testing to detect potential bugs in software project.

Team Lead - **Project**   NEU (China), May 2017 - June 2017
· Used componentization libraries to facilitate reuse of code and reduced 1,000 lines of coding compared to other teams.
· Project of highest score in course *JSP and Servlet Techniques*, 15% higher than the second one.

HONORS AND AWARDS

Some Award   February 2018
Outstanding Student in Academic Performance   October 2017
University Scholarship for Grade Top 10%   September 2017

PUBLICATIONS

[1] Guo, G. & <u>Li, A.</u> (2018). A Domain Tracking Method Based on Short Text. *China Patent Application.*

[2] <u>Li, A.</u> (2018). Application of Mathematical Modeling in Data Mining. *Information Systems Engineering*, 289, 124-125. *(This journal was published in Mandarin Chinese.)*

[3] <u>Li, A.</u>, Li, Y. & Li, X. (2017, October). TensorFlow and Keras-based Convolutional Neural Network in Cat Image Recognition. in *International Conference on Computational Modeling, Simulation and Applied Mathematics* (pp. 529-533). Beijing, China. `http://faculty.neu.edu.cn/swc/guogb/docs/li2017tensorflow.pdf` .

EXTRA-CURRICULAR ACTIVITIES

Attendee - **Microsoft Tech Summit China** October 2018

· Shared my own ideas in *AI Night* seminar and *Microsoft Loves Startups* discussion session, from my former experience as Startup Partner and Algorithm Engineer (internship).

· Cooperated with people from Microsoft Research Asia in hands-on laboratory about hyperparamter tuning of machine learning.