

JUNHAO LIN

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Education

- **Hong Kong University of Science and Technology, Hong Kong** 2014.09 - 2015.11
Master of Science in Information Technology GPA: 4.1/4.3
- **Sun Yat-sen University, Guangzhou, China** 2010.09 - 2014.06
Bachelor of Engineering in Software Engineering GPA: 3.9/4.0
- **National Chung Cheng University, Taiwan** 2012.09 - 2013.02
Exchange Student at Department of Computer Science and Information Engineering GPA: 4.0/4.0

Employment

- **Tencent, Shenzhen, China** Software Development Engineer 2015.07 - present
WeChat Group, Department of WeChat Pay, Fundamental Development Team
Developed Transaction Record System (message-queue writing, key-value store, Nginx routing)
Developed Payment Quota System (KV store, memcached reduces DB access)
- **High-Dimension Data Tech. Co., Ltd, Shenzhen, China** Software Development Engineer, Intern 2014.12 - 2015.02
Implemented shopping mall indoor positioning and navigation (Android app, bluetooth positioning)
Shops navigation using A-star algorithm and signal process using Github android-beacon-library

Technical Experience

- **Payment Quota System** (C++ server module)
Payment Quota System consists of two modules. Rule module stores rules and tells Query module whether it meets rules or not. Query module receives RPC payment request and tell whether it is over quota or not. Both of them have three layers. The bottom Data-Access-Object Layer executes Create, Update, Delete and Query operation in key-value store. The middle Manager Layer implements module function. The top Business Layer handles requests and uses Memcached to prevent frequently accessing to Database and guarantee idempotent. (Whole module design, coding and testing)
- **Pack-it** (iOS App)
Pack-it is an iOS application of a start-up program. It can identify several products (bag, shirt, trousers and shoes) by taking photo with iPhone. We crawl product pictures (10k+) from the web and train the classify model, using Machine Learning method (Random-Forest) (accuracy: 75%). When people want to buy a product from an advertisement, they take a photo of the products. Our app will recognize the product and send the photo to the correspond shops which can supply the product. (Classify model training)
- **Concept connection based on Wikipedia** (Python program)
Concept connection based on Wikipedia (abbr. CCBOW) is my most proud program in University. It can find the connection between two words in Chinese Wikipedia. It finds the path from your given Start-word and reach your given End-word. To implement this program, I download the whole Chinese Wikipedia, split webpage sentences into words., sort the word pages by PageRank and use tricky double sides Breadth-First-Search strategy. With the application evolved by CCBOW, I got an award at Guzhonghou Hackathon, and participated the Global Hackathon in Seoul, Korean 2014. (Whole program design, algorithm design and coding)

Technology

- C/C++, Python, Linux environment, Mac OSX
- Proto-Buffer, Memcached, Key-Value, GDB, Message-Queue