Kun QIAN

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INDUSTRY EXPERIENCE

Software Engineer

Global Enterprise Mobility Lab, HCL

Apr12 - Now/Singapore

Core developer and innovator in the Mobility lab of HCL (No.4 largest IT company in India); Received top annual performance review (9.3/10) by performing duties in two aspects:

· High Performance Application Development

(Java/Android, Java/Play framework)

- Lead Android developer in redesigning a major ecommerce app (<u>ScanDelight</u>) for SingPost in a team of 7 persons in 12 months; rebuild the architecture and systems (1st phase); extended with 20% new features (2ed phase);
- Redeveloped WebService API and data synchronization strategy; optimized SQLite database design; boosted page loading via threading and caching; resulted in average 400% performance improvement;
- Refactored code base to better follow MVC and OO design pattern; reduced 2/3 codes and enhanced scalability;
- o Increased robustness through adopting careful memory management strategy;
- Rapid New POC/Product Development

(Java/Android, C#/Windows8, JS/HTML5/CSS, RoR, Node)

- Identified strategic portfolios by rapid Proof of Concept (POC) development for global customers (MayBank, URA, VISA, EDB, Manulife etc.), leveraging SMAC (Social, Mobile, Analytic, Cloud) technology and Agile approach;
- Lead Android & Windows 8 developer, UX designer in delivering 3 novel and comprehensive mobile products:
 (FinEdge Mobile CRM for Banks, Hawkeye Mobile Field Service System for Governments, VISABrowser Voice Authorized Mobile Wallet for Consumer);

Co-Founder (Software Engineer / UX)

GroupCells Pte Ltd

Jan11 - Jan12/Singapore

Created an interests and location aware mobile Social Network (<u>GroupCells</u>) for strangers to establish instant connection group; Developed two products: Groupcells for sharing pictures and for making business connection; (Java/Android)

- Worked in a team of 5 developers; developed the grouping algorithm and mobile interface; created business plan;
- Achieved finalist (Top 10) in SingTel i.Challenge 2011 Startup Competition; Reported by <u>TechCrunch</u>, <u>TechNode</u> etc;

RESEARCH EXPERIENCE

Graduate Researcher

Human Computer Interaction Lab, NUS/UOM

Feb09 - Jan11/Singapore, Canada

Researched in providing intelligent services and delightful user experience by converging *HCI* and *Machine Learning* technologies; Implemented 3 such systems on *mobile*, *web* and *robotic* platforms; Selected project as follow:

· Context Aware Mobile Social Network for Sporting

(Java/Android)

- Led a team of 4 developers to create a context aware Mobile SNS system; designed the system architecture and UX; Implemented the mobile end in Android 1.5; successfully extended into a commercial project (GroupCells);
- · Intelligent Domestic Robot:

(C#/WPF, C++)

Led a team of 3 developers to create a learning system that transfer intelligence to robot by playing web games;
designed the architecture and UX, delivered a self-cleaning room system; resulted in user satisfaction of 5.9/7;

Research Intern

Media Computing & Web Intelligence Lab, Fudan

Sep07 - Jul08/China

High Dimensional Data Processing

(C++)

o Developed a cluster-based ensemble semi-supervised learning algorithms for high dimensional image classification; achieved 16.31% average accuracy improvement compared to *SVM* on Geo-Sensing Data;

SKILLS

Mobile/Frontend:

Java/Android (Expert), C#/Windows8, JavaScript/jQMobile/Bootstrap/PhoneGap, Obj-C/iOS

Web/Backend: Java/Play Framework, Ruby on Rails, JavaScript/NodeJS/Express, C++, AWS/Heroku

Data/Analytics: SQL/SQLite/MySQL, NOSQL/MongoDB, Big Data/Hadoop

EDUCATION

M.SC in Computer Science

National University of Singapore (NUS)

Aug08 - Jan12/Singapore

• GPA: 4.56/5, Top 5%, Specialized in *Human Computer Interaction*, Full PHD Scholarship

Double Bachelor Degree

Fudan University

Sep04 – Jul08/China

• B.S in Computer Science and B.B.A in Accountancy. GPA: 3.4/4, Top 10%, Specialized in *Machine Learning* **Honor & Awards:** Outstanding Leader (1%), Top Ten of School of Information (1%), Outstanding Graduates (1%)