

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)
 - **Lead Android developer** in redesigning a major ecommerce app ([ScanDelight](#)) for SingPost in a team of 7 persons in 9 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, caching and image compression; resulted in average 400% performance improvement;
 - Refactored code base to better follow *MVC* and *OO* design pattern; reduced 2/3 codes and enhanced scalability;
 - Increased robustness through adopting careful memory management strategy;
- *Rapid New POC/Product Development* (Java/Android, C#/Windows8, JavaScript/HTML5)
 - 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 ([GroupCells](#)) 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 [TechCrunch](#), [TechNode](#) 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++)
 - 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%)