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# Kailiang(Bright) Chen

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### **OBJECTIVE**

To obtain a full time software developer position utilizing my skills in Mobile, Cloud and Backend.

Carnegie Mellon University, Pittsburgh-Silicon Valley

GPA 3.46/4.0

| Aug.2014 - Dec.2015 (Expected)

M.S. of Information Technology, Mobility, Information Network Institute

Courses: 15619 Cloud Computing/ 15640 Distributed System /15213 Intro to Computer System

14837 Java Smart Phone(Android) / 14836 Mobile Game Development(iOS) / 14839 Mobile Ecosystem / 18797 Machine Learning for Signal Processing / 95706 OOA&D / 14740 Computer Networks

Fudan University, Shanghai, China

| Sept.2005 - Jul.2008

M.S. of Electronic Engineering, Image Processing & Artificial Intelligence Lab

Fudan University, Shanghai, China

| Sept.2001 - Jul.2005

B.S. of Electronic Engineering, Excellent Graduate Student

### **SKILLS**

Programming: Java/C++(Proficient) C/Matlab/Ruby(Intermediate) Objective-C/HTML/CSS/Javascript/Python(Beginner) Android/AWS/Hadoop/OOA&D/MySQL/JDBC/Servlet/JSP/Web/HTTP/Machine Learning/Computer Vision

## **ACADEMIC PROJECT**

- PicKick a Cloud-based Photo/Video App (Android/HTTP/MySQL + MongoDB) CMU, 14837 Java Smart Phone
  - Designed and implemented a cloud-base photo/video web service for remotely storage and search using Android client(AsynTask/ContentProvider/SQLite) - HTTP/JSON - Web Service(MySQL/MongoDB) and Google Map API v2.
- (Java/Servlet/JDBC/MySQL) Car Configuration Client/Server Application - CMU, 14837 Java Smart Phone
  - Designed and implemented a client-server system for a car configuration application similar to http:// www.kbb.com/ in Java using Apache Tomcat, JSP, Servlets, JDBC/MySQL(CRUD) with OOP design principles.
- Twitter Analytic RESTful Web Service (Java/Python/MySQL/HBase + AWS) - CMU, 15619 Cloud Computing
  - Designed and implemented large-volume data(1TB) processing web service using WebApp + ETL(JSON) + MySQL/ HBase, which provides high-throughput demanding queries, using Amazon Web Service(EC2, S3, ELB, ASG, etc.,)
- **Map-Reduce Engine**

(Java)

- CMU, 15640 Distributed System

- Designed and implemented a simplified Map-Reduce and HDFS Framework which is similar to Hadoop, comprised of JobTracker, TaskTracker, Mapper/Reducer/Combiner and can process large volume data in a distributed environment
- RMI(Remote Invocation Method) Facility (Java)

- CMU, 15640 Distributed System
- Designed and implemented a facility similar to Java RMI, object method can be looked up and remotely invoked
- SpaceMonkey a iOS Shooting Game
- (Objective-C)
- CMU, 14836 Mobile Game
- Designed and implemented a 2D infinite shooting game on iPhone & iPad using Cocos2D and SpriteBuilder engine
- MiniSQL Database Engine

(C++)

- CMU, 15615 Database Application
- A MiniSQL which supports creating table, B+ tree index creating, selecting from, insert, delete records queries library.

# WORK EXPERIENCE

- Mobile Software Engineer Intern, NVIDIA(HQ), Mobile(Tegra) Software Department | June.2015 - Aug.2015
  - Research, design and implement new visual computing features on Android Shield tablet and game console
- SONY Japan(HQ), Cloud Service Application Department | Nov. 2008 June. 2014 Mobile\_Software Engineer,
  - Design and develop app/framework software on Android/Linux hybrid system for next-generation cameras, providing photography application download service and connection with Smart Phone, Tablet, Smart Watch

# **WORK PROJECT**

SFM based 2D/3D Reconstruction Android App

- NVIDIA

| June.2015 - August.2015

Responsibility: (Java - JNI- C++)

- Researched and deployed Structure from Motion algorithm pipeline using Android NDK/open source libraries
- Designed and implemented a 3D Photo Generation Android App using OpenGL ES/OpenCV on Tablet
- Playmemories(Android) Camera Apps

- **SONY(Japan)** | Nov. 2008 – June. 2014

https://www.playmemoriescameraapps.com/portal/ (Official Website) https://www.youtube.com/watch?v=3Il4EBcilO0 (CM)

Responsibility: (Java - JNI - C++)

- Designed and developed features(UI/Core Service/Network, etc.,) on framework and application(> 20 apps released)
- Designed and developed large-scale common software hybrid platform using OOA/OOD, MVC, Design Patterns