4337 Renaissance Dr, Apt#116

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### **OBJECTIVE**

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

#### **EDUCATION**

Carnegie Mellon University, Pittsburgh-Silicon Valley

| 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++() C/Matlab/Ruby(Intermediate) Objective-C/HTML/CSS/Javascript/Python(Beginner) Knowledge: Android/Amazon AWS/Hadoop/OOA&D/MySQL/iOS/Web/HTTP/Neural Network/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.
- > 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.
- Cached Web Proxy
  CH++) CMU, 15213 Intro to Computer System
  Designed and implemented a multithread Web Proxy based on HTTP 1.0 with LRU Cache.

# WORK EXPERIENCE

- > Mobile Software Engineer Intern, NVIDIA(HQ), Mobile(Tegra) Software Department | June. 2015 Aug. 2015
  - Research, design and implement new visual computing features for Camera App on Android Shield tablet
- Mobile\_Software Engineer, SONY Japan(HQ), Common Software Department | Nov. 2008 June. 2014
  - 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

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) Smart Camera Apps

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

https://www.playmemoriescameraapps.com/portal/ (Official Website) https://www.youtube.com/watch?v=3II4EBcilO0 (CM)

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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**
- Japanese Good Design Awards 2013/ Sony Imaging Group Challenging Awards 2012(Top 3)