

# Chuan Xia

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## SUMMARY

A creative and effective software engineer who has not only strong problem solving ability but also excellent design sensibility. Expert in Java and C#, experienced in Windows and Android application development as well as data processing. Familiar with web design and computer systems. Worked as a technical liaison who analyzes demands and communicates with engineers.

## EDUCATION

Expected 05/2015 **M.S. in Electrical and Computer Engineering**  
Duke University  
Durham, NC, United States  
GPA: 3.91/4.00  
Related Courses: *Machine Learning, Computer Vision, Cloud Computing, Artificial Intelligence, Data Structures and Algorithms, Operating Systems, Advanced Digital System Design.*

07/2013 **B.S. in Automation**  
East China University of Science and Technology (ECUST)  
Shanghai, China  
Major GPA: 3.74/4.00

08/2012 - 05/2013 **Exchange Student in Electrical Engineering**  
Lamar University  
Beaumont, TX, United States  
GPA: 4.00/4.00

## TECHNICAL SKILLS

### Programming

Proficient in:

Java, C#

Familiar with:

C/C++, Python, MATLAB, R

HTML, CSS, JavaScript, XAML

Assembly language (MIPS), VHDL

### Platform

OS X, Linux, Windows

### Design and Visualization

Web design

UI design (mobile app and desktop software)

D3.js

## SELECTED AWARDS AND ACTIVITIES

2013	Outstanding Graduate	Shanghai, China
2013	President's List	Lamar University
2013	Top Class Scholarship (Top 2%)	ECUST
2012	President of Alumni Organization	ECUST

## WORK EXPERIENCE

09/2014 - present **Tutor in Graduate Course *Fundamentals of Computer Systems and Engineering***  
Duke University  
Durham, NC, United States

05/2014 - 08/2014 **Software Development Intern**  
**SMT (SportsMEDIA Technology)**  
Durham, NC, United States

- Worked in a small team to build a series of testing tools as part of a larger database project.
- Developed three WPF applications in C# and XAML that retrieve, parse, process and visualize real-time data from web feed.
- Led the back-end development and took part in the front-end design.

07/2012 - 08/2012 **System Analyst Intern**  
**China Mobile Group Anhui Co., Ltd.**  
Hefei, China

- Analyzed and reported technical demands for engineers at Information System Department.
- Analyzed new services and optimized their processes.
- Assisted with channel management and information security investigation.

## PROJECTS

09/2014 - present **Classical Moment, Android App**

- Developing an Android app for a local classical music radio station that allows users to get information of currently playing track as well as daily playlist and manage favorites through simple operation.

03/2014 **Pearl Polling, Android App**

- Designed and developed an Android app that allows users to create and take part in surveys or polls conveniently by just one click without sign-in.
- Stored and managed data in Google Cloud Datastore.

03/2014 **Elevator Controller, Course Project**

- Developed an elevator controller in Java. Proposed a mechanism to handle concurrency and designed an arbiter algorithm to dispatch elevators.
- Multiple threads were used to simulate the behavior of riders and elevators.

02/2014 - 04/2014 **Shell and File System Design, Course Project**

- Implemented a shell in C that supports common shell features like spawning child processes, executing external programs, pipelining and job control.
- Built a multi-threaded file system in Java that allows clients to create and share files. Designed and implemented the top layer that represents the state of file system, manages the files it contains and offers interfaces for both users and lower-level cache.

11/2013 - 12/2013 **Blue Devil Billiard Game, Course Project**

- Took part in development of a 2D billiard game in C++, implemented the GUI with SDL library.