

Jieyu Tian

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SUMMARY

Enthusiastic programmer with strong competencies in data structures, algorithms and object-oriented design. Extensive experience in Java, C# and C++. Experienced with web development, database and Android development.

QUALIFICATIONS

- Programming Language: **Java**(2+ years with strong Object-Oriented Design skill), **C#**, C++
- Web Development: HTML/CSS, JavaScript, JSON, MySQL, MongoDB
- Software Development: **Eclipse**, IntelliJ, **Visual Studio**, MATLAB(5 years experience), **Machine Learning**(Applied in the project for video frames prediction), **Android** Development(with Android Studio)
- Operating System: **Linux** (2 years experience), Unix, Windows

EDUCATION

- The Ohio State University
Major GPA (4.00 scale): **3.925**
M.S. Electrical & Computer Engineering
Expected Graduation: May 2015
- Shanghai Jiao Tong University
Graduate Date: June 29th, 2014
B.S. Electrical Engineering

WORK EXPERIENCE

Internship, Individual Work, Computer Vision Engineer

IVM (Image, Video, and Multimedia) Laboratory, Shanghai, China December, 2013 – July 2014

- Realized compression and restoration of arbitrary video sequence with machine learning techniques
- Increased video compression rate by 15% with almost same PSNR compared to standard H.264 codec
- Submitted a conference paper for IEEE conference ICCV hold in October 2014

Internship, Group Work, Software Engineer & Project Leader

LeTouch Co., Shanghai, China July 2012 – July 2013

- Industrialized a **learning-based tactile controller** system which convert a glass or metal board into a touchpad for computer or intelligent phones based on the technique of lamb wave provided by a paper
- Built an embedded system to let computer receive information from data acquisition card
- Established a local database to store and retrieve the related frequency information of points being touched
- Wrote a demo program with UI using MFC to decide and display the point in the database being touched

PROJECTS

Talk! Show! (OSU hackathon 2014) (<http://ohiohackathon2014.github.io/t25OV3Diaosi/>) Oct 3 ~ 5, 2014

- Implemented voice-to-text function using Google Speech Recognition API
- Fulfilled the key words recognition with Open Calais API, and translated key words to pictures using Flickr API
- Combined the Three APIs and organized them in a fancy way by jQuery AnimatedResponsiveImageGrid library and HTML5 to realize the conversion from voice to related images

Java Application with Database

August 2014 – Present

- Mastered manipulation of Mongo database with Mongo shell and JSON format
- Established Java environment with Maven, Spark and Freemarker under IntelliJ IDE
- Building a blog supporting posts with comments and tag list based on this framework

Android Application Development

August 2014 – Present

- Designing a location-based Q&A mobile application for users to gain knowledge on specific location
- Combined with Google Map API and a remote server to maintain user information, Q&A in database

Operating System Laboratory, the Ohio State University

August 2014 – Present

- Designed a fair-share scheduler for Linux kernel to realize fair-scheduling among users instead of processes
- Working on memory management of Linux kernel and designing a file system for Linux further