# Shaoqing Yu (Shawn)

http://www.linkedin.com/in/yushaoqing

EXPERIENCE

# The University of Auckland

Auckland, NZ

Research Assistant on MPAid (Maori Pronunciation Aid)

Nov. 2015 - Mar. 2016

Mobile: +64-021-151-8850

Email: syu702@aucklanduni.ac.nz

- Research & Design: Took over the project and studied the associated backgroud knowledge. Cleaned the legacy code and re-designed the architecture as well as the UI.
- Speech Recognition: Built the Maori language model by an open-source toolkit named HTK. Automated the language model building process by Perl and batch. Improved the recognition rate from 44.6% to 80.4%.
- Evaluation & Feedback: Implemented a score board to record users' pronoucing performance, analyse the recognition results and provide valuable feedbacks.
- Media: Integrated the NAudio library to play and generate audio recoordings. Embedded the VLC player to play the videos of pronuncing demostrations.
- **Document**: Uploaded and managed the source code on Github. Wrote the project wiki and kept releasing new versions.
- Future Plan: Wrote a detailed proposal about migrating the MPAid from desktop to mobile and server-hosting.

### The Second Academy of China Aerospace

Beijing, China

Leader of iTos (Intelligent Transmitting Online System) team

Apr. 2013 and Feb. 2015

- **Design**: Designed the iTos, which can dynamically change the quality of transmitted media according to the bandwidth.
- Implementation: Re-wrote the notwork component by IOCP to improve the parallel transportation. Built the media decoding/encoding/transmitting core by ffmpeg and RTSP protocol. Implemented the system sanpshot function to recover node server from fatal errors.
- Promotion: Promoted and deployed the iTos to 3 military bases.
- Team Building: Built an outstanding team who won the prize "the excellent team of 2014".

#### Projects

# • The Getskills Website

The University of Auckland

An online education employment website developed with C# and running on microsoft Azure server for a New Zealand company named Getskills.

#### • The MPAid (Maori Pronunciation Aid)

The University of Auckland

A software on .Net platform with Maori speech recognition and evaluation system to help Maori speaker improve their pronouciation.

• The iTos (Intelligent Transmitting Online System) The Second Academy of China Aerospace

A system with a high performance in massive media distributing and delivery.

#### • Children Cognitive System

The Beihang University

An education paltform which applied AR (Augmented Reality) and VR (Voice Recognization) technologies to improve the interaction between computers and children, aming to help pre-educational children effectively learn some abstract objects like thunder, wind and fog.

### **EDUCATION**

### The University of Auckland

Auckland, NZ

Master of Engineering in Software Engineering; GPA: 7.75/9.00

Aug. 2015 - Jun. 2016

#### The Beihang University

Beijing, China

Bachelor of Engineering in Software Engineering; GPA: 3.71/4.00

Aug. 2009 - Jul. 2013

# PROGRAMMING SKILLS

• Languages: C/C++/C#/Java/PHP/Javascript/HTML/CSS/Perl

**Platforms**: Windows/Linux