

Shaoqing Yu (Shawn)

SOFTWARE ENGINEER · FULLSTACK DEVELOPER

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"Stay hungry! Stay foolish! Work with smart guys!"

Education

The University of Auckland

Auckland, New Zealand

MASTER OF ENGINEERING IN SOFTWARE ENGINEERING - GPA: 7.75/9.00

Aug. 2015 - Jun. 2016

The Beijing University of Aeronautics and Astronautics

Beijing, China

BACHELOR OF ENGINEERING IN SOFTWARE ENGINEERING - GPA: 3.71/4.00

Aug. 2009 - Jul. 2013

Skills

Programming C#, C/C++, JAVA

Scripts PHP, JavaScript, HTML5, CSS, Perl, Shell, Batch

Platforms Windows, Linux

Experience

The University of Auckland

Auckland, New Zealand

RESEARCH ASSISTANT ON MPAID (MAORI PRONUNCIATION AID) PROJECT

Nov. 2015 - Mar. 2016

- **Research & Design:** Took over the project and studied the associated background 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' pronouncing performance, analyse the recognition results and provide valuable feedbacks.
- **Media:** Integrated the NAudio library to play and generate audio recordings. Embedded the VLC player to play the videos of pronouncing demonstrations.
- **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 - Feb. 2015

- **Design:** Designed the iTos, which can dynamically change the quality of transmitted media according to the bandwidth.
- **Implementation:** Re-wrote the network component by IOCP to improve the parallel transportation. Built the media decoding/encoding/transmitting core by ffmpeg and RTSP protocol. Implemented the system snapshot 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".

Patents

Children Cognitive System Based on Augmented Reality Technology and Cognitive Method

China

PATENT ISSUED — CN103035135A

Nov. 2012

- Comprised an image information input module, an image information matching module, a drawing model module and a voice recognition module.
- Developed through interfaces of an ARToolkit augmented reality development kit, a Microsoft Speech SDK voice recognition engine, a 3D max modeling tool and the like.
- Performed simple interaction with a virtual scene in a computer through the voice recognition.
- Operations like moving, amplifying and contracting a model are achieved through OpenGL image processing technology and 3D modeling technology.

Projects

The MPaid (Maori Pronunciation Aid)

Auckland, New Zealand

THE UNIVERSITY OF AUCKLAND

Mar. 2016

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

The Getskills Website

Auckland, New Zealand

THE UNIVERSITY OF AUCKLAND

Oct. 2015

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

The iTos (Intelligent Transmitting Online System)

Beijing, China

THE SECOND ACADEMY OF CHINA AEROSPACE

Feb. 2015

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

Children Cognitive System

Beijing, China

THE BEIJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS

Nov. 2012

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

Extracurricular Activity

MSTC (Microsoft Technology Club), Buaa

Beijing, China

CORE MEMBER

Nov. 2009 - Jun. 2013

- Attended the coding competition — "The big tank war".
- Won the prize — "The future star".

The special college for the senior, Buaa

Beijing, China

TUTOR

Jun. 2011 - Aug. 2011

- Worked in summer holidays as a volunteer tutor who taught those retired lecturers basic computer background knowledge and skills.