LI, Zhihao http://codinfox.github.io

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EDUCATION

Tongji University

Shanghai, China

B.Eng. in Software Engineering

*Sept.*2011 - *Jun.*2015 (*Expected*)

• GPA: 4.95/5.0 Ranking: 1/149

• Related Courses: Data Mining & Analysis, Machine Learning, Object-Oriented Programming, Data Structures, Operating System, Compiler Principle, Computer Architecture, Computer Network

Rose-Hulman Institute of Technology

Terre Haute, IN

Visit Student in Computer Science & Software Engineering

Aug.2014 - Nov.2014

• GPA: 4.0/4.0

• Related Courses: Artificial Intelligence, Design & Analysis of Algorithms

RESEARCH EXPERIENCES

Interest: Computer Vision, Machine Learning, Artificial Intelligence

Undergraduate Independent Research, RHIT

Terre Haute, IN

Directed by Prof. David Mutchler, Rose-Hulman Institute of Technology

Sept.2014 - Present

- Using biologically plausible method of Visual Saliency and Gist to recognize indoor scenes
- Using SURF feature, BoF model, and Histogram method to uniquely describe and identify scenes
- Symposium: The 11th Annual IRC Undergraduate Student Research Symposium, RHIT Oral Presentation: Biologically Inspired Vision-based Indoor Robot Localization and Scene Classification

iLab@Tongji Shanghai, China

Directed by Prof. Laurent Itti, Tongji University and University of Southern California

Jan.2014 - Present

- Research on indoor service robot localization and navigation and applications of Saliency and Gist
- Independently implemented biologically plausible algorithm of Gist of a scene
- Independently implemented color manipulation algorithms including Retinex

Key Laboratory of Embedded System & Service Computing, Ministry of Education Shanghai, China *Directed by Prof. Hanli Wang, Tongji University*Sept.2013 - Dec.2013

Research on computational aesthetics based image retrieval engine

- Tried to use of intensity, color, texture and shape features to assess whether a picture is beautiful
- Developer of the iOS client of a image search application

MOOC: Machine Learning Coursera Certificate

Jun.2014

TEACHING EXPERIENCES

Teaching Assistant

Shanghai, China

School of Software Engineering, Tongji University

Spring, 2013

- Teach exercise and review sessions of Digital Logic course for first year students
- Outstanding Teaching Assistant Award

PROJECT EXPERIENCES

NRT (Neuromorphic Robotic Toolkit)

Shanghai, China

Cooperating with USC iLab

Aug.2014 - Present

Contributor

Develop several color manipulation and image processing algorithms, including Retinex and Gist

GF - An Memory-aid Application for Learning English Words

Shanghai, China

Cooperating with New Oriental Education & Technology Group(NYSE:EDU)

Project Manager

Aug.2013 - Feb.2014

• Developed an iOS application with proper algorithm to help people better memorizing English words

Using Networks to Measure Influence and Impact

Shanghai, China

Interdisciplinary Contest in Modeling

Feb.2014

- Used Matlab, SPSS, Excel and Gephi to analyze co-authorship network and do data visualization
- Proposed an Entropy-Weight-Based Gray Relational Analysis model, a quantitative method for analyzing the correlation between two subjects and avoid human interference in the weighting process.

Cellular Automaton Simulation Based Analysis Model on City Lane Occupation

Shanghai, China

China Undergraduate Mathematical Contest in Modeling

Nov.2013

• Used Matlab to implement cellular automaton model and simulate and analyze the city traffic

Navigation Instrument for Smartphones Based on Real-time Traffic Condition

Shanghai, China

Funded by Shanghai Innovation Experiment Program Team Leader Nov.2011 - Nov.2013

• Developed an cross-platform web-based HTML5 app to gather and share real-time traffic conditions across Shanghai automatically and provide the users with the best driving route

SmartEXPO - An Online Exhibition System

Shanghai, China

Funded by SITP (Student Innovation Training Program), Tongji University Web Front-end Engineer

Mar.2013 - Jun.2013

• Developed a web-based virtual online exhibition system to aid the real-world exhibitions using HTML5

CloudEDU - An Online Education System

Shanghai, China

Project for Microsoft ImagineCup 2014 and Course Project Database Administrator

Aug.2013 & Mar.2014

Developed a C/S application with SQL Server, C#, and WCF to enable people to share their knowledge

HONOURS & AWARDS

14' Google Excellence Scholarship, Google (Top 62 nation-wide, including graduate students) **Meritorious Winner of Interdisciplinary Contest in Modeling** (Globally Top 10%)

Paper: Using Networks to Measure Influence and Impact

First Prize for Microsoft ImagineCup 2014 Tongji U, Microsoft

13' National Scholarship, Ministry of Education of the People's Republic of China (Top 0.2%)

I was the only one in my school who won the scholarship for two consecutive academic years.

First-class Scholarship, Tongji University (Top 10%)

Second Prize for China Undergraduate Mathematical Contest in Modeling, Shanghai (Top 10%)

Paper: Cellular Automaton Simulation Based Analysis Model on City Lane Occupation

Outstanding Student Award, Tongji University (Top 10%)

12' National Scholarship, Ministry of Education of the People's Republic of China (Top 0.2%)

First-class Scholarship, Tongji University (Top 10%)

Outstanding Student Award, Tongji University (Top 10%)

Outstanding League Member Award, Tongji University (Top 5%)

Bronze Prize for Master the Mainframe Contest, IBM

TECHNICAL STRENGTH

Programming Languages Platforms

C/C++, Matlab, Python, Java, JavaScript, HTML, CSS, LATEX, Objective-C

Linux, Web, OS X (Unix), iOS

Tools Git, SVN, Vim, GDB