Yu Chen | Curriculum Vitae

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Education

Rensselaer Polytechnic Institute	**Troy, NY**
Ph.D in Computer Science	Aug. 2015 - May. 2020 (EXPECTED)
The University of Michigan-Dearborn	**Dearborn, MI**
Exchange student in Computer & Information Science	Sep. 2014 - Dec. 2014
The University of Electronic Science and Technology of China	**Chengdu, China**
B.Eng. in Communication Engineering	Sep. 2011 - Jul. 2015

Honors & Awards

The First-Class People's Scholarship	
The University of Electronic Science and Technology of China	2012 - 2013 & 2013 - 2014
Third Prize Outstanding Volunteer in Popular Science	
China Association for Science and Technology & ASUSTeK Computer Inc.	Oct. 2012
National Scholarship	
Ministry of Education of China, Top 1.6 %	2011 - 2012

Research & Work Experience

Graduate Teaching Assistant   **Troy, NY**
Aug. 2015 - Present

- Grading students' assignments.
- Holding office hours to help students with learning.

Python Web Developer at Microoh   **Chengdu, China**
Mar. 2015 - May. 2015

- Responsible for the background computing of LPS 2.0 which was a personalized learning management system.

Research Assistant in the Virtual Engineering Laboratory, UM-Dearborn   **Dearborn, MI**
Advisor: Prof. Jie Shen   Sep. 2014 - Dec. 2014
Data mining of large-scale discrete data sets with a focus on 3D surface denoising.

- Applied data mining and machine learning algorithms on large-scale data sets.
- Collected and compared existing approaches of 3D surface denoising.
- Designed and implemented a voxel-based fast surface propagation method to remove non-isolated and sharp featured surface outliers.
- More information here.

Research Assistant in the Web Sciences Center, UESTC   **Chengdu, China**
Advisor: Prof. Tao Zhou   May. 2014 - Jul. 2014

Empirical analysis and recommendation algorithms design in social network area.

- Analyzed a mass of data provided by multiple social network websites.
- Found interesting patterns of human behaviors with temporal dynamics in social networks.
- Designed and implemented novel and effective recommendation algorithms.
- More information here.

Grants

Core Developer in the Yellow Ginkgo Innovation Fund   **Chengdu, China**

The University of Electronic Science and Technology of China   Apr. 2013 - Dec. 2013

A GSM-based remote water quality monitoring system providing simple interactions between monitors and monitoring center.

- One of the three core developers in this fund.
- Took charge of the embedded development.
- Designed and implemented the embedded part of the system.
- Designed and implemented communication protocols between monitors and monitoring center.
- More information here.

Director in the University Students Technology Innovation Fund   **Chengdu, China**

The University of Electronic Science and Technology of China   Sep.*2012* - Nov.*2013*

A wireless pen which could record its tracks and transmitted them to a computer application through Bluetooth.

- Built a group with six members.
- Designed and implemented a wireless pen system based on an ARM microcontroller.
- Wrote a GUI program running on a computer.
- More information here.

Projects

PeopleFinder   **Chengdu, China**

The University of Electronic Science and Technology of China   Jun. 2015

A software designed to find email correspondents in online social networks. Import your email box and get friends recommendation in online social networks. More information here and here.

rUDP   **Dearborn, MI**

The University of Michigan-Dearborn   Oct. 2014

Reliable end-to-end in-order data delivery service inside the application layer on top of the UDP which was encapsulated as TCP-like stuff. More information here.

Data Analysis of SNS   **Chengdu, China**

The University of Electronic Science and Technology of China   Oct. 2013 - Dec. 2013

An application which could login Renren (a Chinese version of Facebook) and obtain user data to: 1) draw user relationship graphs. 2) recommend public pages. More information here.

CourseNow   **Chengdu, China**

The University of Electronic Science and Technology of China   Apr. 2013 - Jun. 2013

An automatic course-registration application aimed at UESTC which could 1) save users' preference lists of courses. 2) login (with cookie) and register multiple courses automatically and concurrently. More information here.

Computer Skills

Programming: Python = C/C++ > Matlab > Java = R = HTML = JavaScript = PHP

Software: Mac, Linux, Windows, Database, Git, CVS, Weka, Numpy, Scipy, pandas, Matplotlib, scikit-learn

Others: Data Mining, Machine Learning, Signal Processing, Web Development, Embedded Systems

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