ZEYU ZHAO

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SUMMARY OF SKILLS

- Solid programming skills in *C/C++* honed from three years' project and work experience
- Two years' working knowledge of *PHP, HTML, CSS, JavaScript, MySQL and Python*
- Proficient in *Object Oriented Programming* using *Visual Studio* or in *Linux*
- Advanced knowledge in *TCP/IP architecture* and project experience in *network programming*
- Strong background in *algorithms*, *mathematics* and *computer vision*
- Four years' experience in using *Linux* (including *ArchLinux*, *CentOS* and *Ubuntu*)
- Outstanding planner, quick-learner and team player

TECHNICAL WORK EXPERIENCE

Software Developer   Sep. 2015– Dec. 2015

Arista Network, Vancouver, Canada

Research Assistant   Jan. 2015– Present

Computational Logic Lab, SFU (Canada) with Prof. Oliver Schulte
- Implemented web crawler in Python to crawl data from NHL official website and analyzed manpower differential on the fly.
- Built regression tree for classifying data using machine learning algorithm built in *Weka*
- Publication: *What is the Value of an Action in Ice Hockey? Q-Learning for the NHL* (*Oliver Schulte, Zeyu Zhao and Kurt Routley* **MLSA2015**)

OPEN SOURCE CONTRIBUTION

Active GitHub User   Jun 2013 – Present

https://github.com/zeruniverse (Jeffery Zhao)
- Coding for fun in spare time
- Got 200+ stars in GitHub for all my projects
- Listed on "Trending repositories on GitHub today" three times (Specified programming language)

EDUCATION BACKGROUND

Simon Fraser University, Bachelor of Science in Computing Science   2014 - Present
- Overall GPA: 4.12 / 4.33 (A: 4.0)
- Minor: Mathematics

Zhejiang University, Bachelor of Engineering in Computer Science and Technology   2012 - Present
- Overall GPA: 3.9 / 4.0 (A: 4.0)
- Top 2% in Zhejiang University

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SELECTED TECHNICAL PROJECTS

Real Time Gesture Recognition   Mar. – Apr. 2015

Computer Vision, Simon Fraser University [code: https://github.com/zeruniverse/Gesture_Recognition]

- Implement real time hand gesture recognition using C++ and MFC which takes photo from camera and recognize user's gesture (Rock/Paper/Scissor)
- Find face region using Haar-like transform to build skin color model
- Find finger gaps by recognizing convexity defects and then find fingertips by local features

Password Manager   Jan. 2015

Personal project [project link: pw.zzeyu.com]

- Generated different strong passwords for different accounts, and saved these passwords in a server after encryption which will greatly improve account security
- Applied SHA512 (with salt) to generate password signature and only transfer this signature to server, which makes sure no one knows the password except the user
- Programmed AES-256 algorithm in JavaScript with CryptoJS library and used HTML5 Session Storage feature to implement client-side encryption and decryption

Sensor Network   Jul. 2014

Project Training, Zhejiang University

- Aimed at gathering data such as temperature, PM2.5 from multiple places on campus and display those data on webpage in real-time from sensors which will be linked to Arduino
- Built an embedded program on Arduino using C to get data from sensors
- Designed wireless communication protocol to let Arduino work at places without wired Internet access

COMMUNITY INVOLVEMENT

Technical Specialist   Sep. 2012 - Jun. 2013

Student Union of Zhejiang University, Academic & Culture Department

- Designed posters with Photoshop, made videos with After Effects and organized some activities
- Awarded as one of the Star Members in 2013 in recognition of campus engagement

AWARDS / SCHOLARSHIPS

- 5th Place in SFU Winter Programming Contest   2015
- National Scholarship of P.R.China (Top 2% in Zhejiang University)   2014
- Simon Fraser University Dual-Degree-Program Entrance Scholarship, First class 2014
- 14th Place in Zhejiang University Mathematical Modeling contest   2014
- 17th Place in ACM/ICPC North America Pacific Region   2014
- Zhejiang University Academic Excellence Scholarship, First-class   2013 & 2014
- Zhejiang University Excellent Student Leader Award   2013
- 2nd Prize in University Mathematic Contest of Zhejiang Province   2013