

Highlight of Skills

- **Theoretical Computer Science Knowledge:** Solid knowledge in algorithms and data structures; familiar with relational database; Also experienced with machine learning and big data analytic techniques
- **Technical Skills**
 - **Programming:** Proficient in C/C++, SQL and Matlab; Also experienced in Java, Ruby and shell scripting
 - **Web Development:** Hands on experience in web development with Ruby on Rails, HTML, CSS, Javascript, MySQL and JDBC; Experienced in both front-end and back-end development
 - **Development Tools:** Proficient in MATLAB, Visual Studio and XCode; Also familiar with Git, Netbeans, Eclipse and VIM editor
- **Teamwork:** Experienced in diverse groups of people; Teamwork skills demonstrated in multiple projects

Education

- **University of Waterloo** Waterloo, Canada
Master of Math in Computer Science (GPA: 92.3/100) 2014 - 2016
 - Relevant courses: Artificial Intelligence, Advanced Algorithms, Big Data Quality, Requirements Engineering
 - **Full Tuition Scholarship** recipient; International Student Entrance Award winner
- **University of Science and Technology of China** Hefei, China
Bachelor of Engineering in Electrical Engineering (GPA: 86.5/100) 2010 - 2014
 - Relevant courses: Database, Object Oriented Software Design, Data Structures, Computer Network
 - Outstanding Student Scholarship winner for each year

Experience

- **Full Stack Developer Intern** Ontario, Canada
ApplyBoard Jan 2016 - Present
 - ApplyBoard is an online application platform for students anywhere in the world to find the best university or college in Canada or the U.S. and apply to it. <https://www.applyboard.com/demo>
 - Actively contributing to the development of both back-end and front-end as a full-stack Rails developer
 - In charge of user information management in AgileCRM, database migration and administration system design
 - Using Ruby on Rails, Ruby, MySQL, Git/Github, Javascript/JQuery, CSS, HTML, Linux
 - Having 50K+ active users globally with 400K+ visits to date; there have been 200+ students successfully getting accepted to colleges/universities in Canada or the U.S. with the help of our web application
- **Graduate Research Assistant** Ontario, Canada
University of Waterloo May 2015 - Present
 - Designed and implemented an innovative algorithm to solve de novo protein sequencing problem using c++
 - The methodology is based on a ranking system; Generated near-full length de novo protein sequencing at nearly perfect accuracy
 - The method is tested on a standard data set and demonstrates superior performance when compared to the state-of-the-art
- **Developer and Group Leader** California, U.S.
Global Design Innovation Workshop, Stanford University Sep. 2013 - Jun. 2014
 - Designed and implemented a smart charging system, sponsored by Electric Mobility Norway
 - Implemented a station model using an Arduino microcontroller, an android smartphone application and a program running on a computer calculating the actual power distribution, collaborated with team members
 - Applied the whole design innovation process and presented the project on Stanford Design eXperience Fair

Notable Projects

- **Ruby Gem Wrapper for International Telephone Input** University of Waterloo
Open Source Contribution Feb 2016 - Mar. 2016

- Identified and helped to fix critical bugs in International Telephone Input, a famous open source JQuery plugin with 1800+ stars on Github
- Wrapped up the plugin as a Ruby Gem to facilitate the installation and configuration for Rails users

- **Data Quality Assurance in Biological Database** University of Waterloo
Advanced Topics in Databases (CS848) *Feb. 2015 - Apr. 2015*
 - Analyzed factors that cause data quality problem in biological database; designed and implemented a cleaning scheme by integrating the similarity of sequence and the semantic of the sequence description