Yutong (Gia) Wu
2B Computer Science & Statistics

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Work Experience

Undergraduate Math Tutor   Jan 2016 – Present

University of Waterloo, Waterloo, ON
- Undergraduate Math Tutor for Math 136, Linear Algebra 1
- Tutoring 3 hours per week to assist students with assignments

Web + Technologies Developer   Aug - Dec 2015

Ontario Institute for Cancer Research, Toronto, ON
- Full-stack experience with jQuery, PHP, MySQL, LaTeX, Bash gained through implementing different modules for Drupal sites
- Designed and delivered workflows for various signup processes
- Explored and integrated API of Google Calendar, Github and Kayako and explored tools including Jekyll, Slate, Sphinx
- Designed and performed tests, assisted debugging and deployment
- Provided clear training documents and videos for new interns

Work Related Project

CaptureSpider.js   Sep 2015 - Oct 2015

A screenshot capture and link check tool based on PhantomJS and CasperJS
- Designed and Implemented authenticated user login and oauth login
- Used CasperJS API to scan large files to avoid crashes

Personal Projects

Personal Seat Companion   Jan 2016 - Present

A powerful, real-time interactive application to reserve seats and rooms
- Implemented a user-friendly interface using JavaScript based on well-designed server-side platforms written in C++
- Provided recommended study places in different school libraries based on users' demands including distance, total study members, etc.
- Updated seat and room availability in real time
- Collected reviews of study facilities such as light, plug and chair from customers and report them to school libraries

Gracio (Gracio)   Hack the North, Sep 2015

An intelligent grocery delivery platform
- Responsible for most of the design work
- Assisted front-end development using JavaScript, HTML and CSS

Sudoku Solver   Dec 2014 – Jan 2015

A convenient tool for solving Sudoku problems
- Designed most optimized algorithms and codes so that solving one Sudoku question takes at most 10 seconds using Scheme
- Used backtracking algorithm to find the path towards the answer
- Implemented Sudoku Solver using both C and Scheme meticulously

Zero Distance   Mar 2012

Personal music album made with Adobe Photoshop and Audition
- Recorded songs, edited MP3s with Adobe Audition
- Edited cover photos with Photoshop

Technical Skills

- **Programming Languages**: C, C++, Scheme, JavaScript, MySQL, Shell, PHP, LaTeX, HTML, CSS, Python, Node.js
- **Frameworks/Tools:** jQuery, Twitter Bootstrap, Angular.js, Vim, Git, Sublime, MS Office, Adobe Photoshop, Adobe Audio, and more
- **Protocols**: JSON, XML
- **Environments:** Unix/Linux, Mac OS X and Windows

Education

University of Waterloo
Candidate for Bachelor of Computer Science
Sep 2014 – Present
- International Student Entrance Scholarship & President Scholarship of Distinction
- Term Dean's Honours List, Fall 2014 & Winter 2015

Communication Skills

- **English**
  Native or Bilingual
- **Mandarin**
  Native or Bilingual
- **French**
  Limited Working Proficiency

Interests

- Movie
  - 3D Animation
  - Oscar
  - Original Soundtrack
- Sitcom
- Musical instruments
  - Guitar
  - Zither
- Breaststroke
- Chinese cuisine
- Singing
- Sudoku