

# Keyan Wang

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## EDUCATION

**Honors Bachelor of Science**, University of Toronto.

September 2013 – June 2018

- Specialist Program in Computer Science
- Relevant Courses: System Programming, Operating Systems, Theory of Computation, Data Structures and Analysis, Algorithms, Databases, Interactive Design, Principles of Programming Languages, Artificial Intelligence, Web Programming, Software Testing

## TECHENICAL SKILLS

- **Programming Languages:** JavaScript, Python, Java, C, C++
- **Web/Server:** HTML, CSS, NodeJS, Express, jQuery
- **Database:** MongoDB, SQL
- **Version Control Systems:** Git, Subversion
- **Operating Systems:** Windows, macOS, Linux

## EXPERIENCE

**Implementation/QA Engineer** at pVelocity Inc

May 2016 – May 2017

- Worked with MongoDB, SQL and implemented new product features using JavaScript
- Built programs for analyzing application performance problems
- Wrote scripts for application installation, deployment, configuration and migration
- Designed test plans and developed test cases for automated testing

**WeLovePets**

Winter 2018

- Led a team of 4 students to develop a pet forum for people to adopt pets, find lost pets, and share pet stories
- Used HTML, CSS and jQuery for the front-end and firebase for the back-end

**Raytracer**

Winter 2018

- Implemented a ray-tracer using C++ and rendered a table tennis match scene using ray casting and global illumination, with features including depth of field, soft shadow, hard shadow, motion blur, texture mapping and anti-aliasing

**Parser400**

Fall 2018

- Built a language parser using python that converts imperative code to functional form

**Virtual Memory and Paging**

Summer 2017

- Implemented a program that does virtual-to-physical address translation and demands paging using a two-level page table in C programming language
- wrote 4 different page replacement algorithms: FIFO, Clock, LRU and OPT

**Kernel101**

Winter 2016

- Wrote and installed kernel modules to the Linux kernel and intercepted system calls

**EasyRoom**

Fall 2014

- Developed an Android application for hospital room management using eclipse
- Implemented multiple user roles with different access and permissions

## INTERESTS

- Cooking, Guitar, Badminton, Table Tennis, solving puzzles, reading