

ALAN YUAN

EDUCATION University of Toronto, Computer Science Specialist (Sept 2011 - Dec 2015)
Don Mills Collegiate Institutes, Honors, Gifted Program (Sept 2008 - June 2011)

SKILLS SUMMARY **Languages:** Python, C, JavaScript, Ruby, Matlab, Java, SQL, HTML, CSS, PHP, Prolog, R, XML
Software/Frameworks: Ruby on Rails, Angular, Meteor, JQuery, Git, Arduino
Relevant Courses: Operating Systems, Computer Networks, Machine Learning, Artificial Intelligence, Algorithm Design and Complexity, Numerical Algorithms, Database Systems

EXPERIENCE **DEVELOPER, DCS UNDERGRADUATE PROJECT PORTAL (DCSUPP)** (JAN 2015 – DEC 2015)
- Coordinated and developed a project portal for the University of Toronto to match students with research projects available within the UofT Department of Computer Science and the UofT Department of Engineering
- Presented an academic project poster about DCSUPP at the 2015 DCS Undergraduate Research Showcase
- Currently used by the DCS Undergraduate Office to match students for NSERC summer research awards for 2015 (<https://dcsupp.cdf.toronto.edu/> UofT ID Login is required to access site)

RESEARCH ASSISTANT, UNIVERSITY OF TORONTO ECONOMICS DEPARTMENT (SEPT 2014 - FEB 2015)
- Assisted with an academic study sponsored by the Canadian Market Regulators, IIROC, to determine the impact of Trade-at-Rules on High Frequency Traders at the TSX market (Research Paper presented to IIRROC)
- Independently computed market qualities such as aggregated effective-spread, price-impact and realized spread from market updates from various electronic trading platforms

RESEARCH ASSISTANT, ROTMAN SCHOOL OF MANAGEMENT (APRIL 2015 - CURRENT)
- Implemented a Python API to collect research publication data and citations from the Web of Science as a reusable research tool for Rotman academics (research project currently postponed)

DEVELOPER, EMAIL CENTRALIZATION SYSTEM (SEPT 2014 – FEB 2015)
- Designed and developed a webpage for the UofT Department of Computer Science using Ruby on Rails and Angular.js to coordinate jobs, news and event updates (Independent Project, not affiliated with the University)
- Introduced an innovative centralized mailing system designed to provide users with up-to-date, customized emails based on user selected preferences on updates (Mailing system has currently 150 student signups)
- Developed a newsletter generating feature used by the Undergraduate Office to generate monthly undergraduate newsletters for over 1000 students

CO- FOUNDER, VIVIER (MAY 2013 – CURRENT)
- Developed a wireless ring-shaped computer mouse using MEMS sensors and Bluetooth LE modules to track user hand motions and gestures (developed a working minimum viable product)
- Researched and implemented signal filtering algorithms and machine learning models in Matlab using sensor data to determine 3-D hand motions and gestures

PRESIDENT, WEB DEVELOPMENT CLUB (MAY 2013 - AUG 2014)
- Founded a club at the University of Toronto to assist students with learning web development and to provide a platform for recruiters to meet potential developers (Club on-going, leadership is changed every year)
- Organized an annual Entrepreneurship and Research Events featuring over 20 startups and academics whom presented their projects or companies to potential undergrads

DEVELOPER, EVIDENCE BASED MEDICAL EDUCATOR (MAY 2013 - SEPT 2013)
- Developed the front end application and layouts of medical sites using HTML, CSS, JQuery, Twitter Bootstrap, and JavaScript