

Guohao Yan

6 Lord Sydenham Ct, Toronto, ON M1W 3S5
Guohao.yan@mail.utoronto.ca
647-889-8081

Skills Summary:

- 5 years of programming experience through personal projects, and course work with Python, Java, C, Verilog, Racket, and Haskell
- 1 year of web programming experience through course work with PHP, Node.js, Javascript, Django
- Confident using version control tools such as svn, git
- Familiar with software development process Waterfall, Agile
- Practical testing experience with JUnit, python
- Knowledge of relational algebra and Database with Psql
- Knowledge and practical experience of applying software design patterns
- Knowledge of fundamental needs of HCI design
- Knowledge of fundamental design and analysis of complex algorithms
- Knowledge of file system, virtual memory and thread concurrency through course training
- Exceptional organization, planning and time management skills
- Excellent data gathering, problem solving skills developed and trained through course and work experiences
- Strong team player with outstanding interpersonal skills as proven by various work experiences

Education:

Candidate for Honours Bachelor of Science, Computer Science, University of Toronto, St. George Campus. Toronto, ON, Canada (Sep 2012 - Present)

Relevant courses: Software Design, Intro to Theory Computation, Data Structure & Analysis, Software Tools & System Programming, Mathematics Expression and Reasoning for CS, Calculus I, Calculus II, Linear Algebra I

Ontario Secondary School Diploma, Dr. Norman Bethune Collegiate Institute, Scarborough, ON (Jun 2012)

Relevant Projects:

- Individually
 - o Designed and implemented a simplified version of Microsoft Paint program using Java
 - o Created an interactive tool finding shortest distance to demonstrate Divide and Conquer algorithm using Python
 - o Implemented a Server program that accepts Client connections and data transfer using Sockets and Select in C
 - o Designed and implemented a C malloc program that dynamically allocates memory with improved efficiency and consideration of concurrency.

- **As part of team**
 - o Designed and developed interactive website with [Django](#) connecting to [MySQL](#) managed database to provide service like [CommunityFund](#)
 - o Designed and built an android application with [Java](#) that mocks StackOverFlow while experimenting Agile software design processes such as KanBan and Scrum
 - o Developed android application that simulates hospital check-in process using [Java](#)
 - o Created an interactive game through basics and fundamental knowledge of computer hardware using [Verilog](#)
 - o Designed and built [Java](#) application similar to TripAdvisor, throughly analyses algorithms in Graph Theory and applied in use

Relevant Work Experience:

Jul-Sep 2013

51.ca

Toronto, ON, Canada

Web Development Assistant

- o Used Visual Studio to develop and enhance front-end website
- o Data management

2014 Apr- Dec

Transport Canada

Toronto, ON, Canada

Information Management Assistant

- o Provided services to different branches within the department
- o Duty includes: Data management, database support, electronic document management

May-Jun 2013

Part-time Python tutor

- o One on one python tutor helping lower year students

Awards & Scholarships:

Bethune Scholar (Grade 12 Overall Final Average above 85%) 2012

Ontario Scholar (Top 6 Grade 12 Courses - Averages Above 80%) 2012

Vex Tournament Finalist Award (Robotic Competition Top 10) 2011

Vex Tournament Best Design award (Overall Best Design of robot) 2011

Vex Think Award (Outstanding Strategy during Robotic Competition) 2011

First robotics Competition Regional Bronze Metal 2010