

EXPERIENCE	Microsoft May 2009 - Aug 2010 <i>Software Development Engineer in Test</i> <ul style="list-style-type: none">• Engineered tests for VOIP platform infrastructure used by large corporate clients to handle thousands of calls per day• Led project to Design and implement VOIP test framework for quick and flexible creation and execution of tests, with web UI for test reporting• Designed and implemented environment and tools for nightly builds of code and automated execution of tests against those builds• Ran and evaluated VOIP call performance. Designed VOIP performance test execution and graphing tools.• Interviewed potential new hires.• Languages: Perl, C++, Javascript, Python, R
	Tellme Networks May 2008 - Aug 2008 <i>Software Development Engineer in Test Intern</i> <ul style="list-style-type: none">• Designed and implemented test automation framework for back-end VOIP system• Developed various automated test utilities• Worked in conjunction with developers to find, test, and resolve bugs• Languages: Perl, C++, Makefile
	University of Toronto Sept 2010 - Present <i>Teaching Assistant</i> <ul style="list-style-type: none">• Acted as teaching assistant for second year data structures course and first year math and logic course• Gave tutorial lectures on selected topics to classes of students• Provided one-on-one office-hour guidance and instruction to students• Marked assignments and tests
EDUCATION	University of Toronto Sept 2010 - Present <i>Masters - Computer Science</i> <ul style="list-style-type: none">• Group: Theory• Supervisor: Mike Molloy• GPA: A+• Thesis: A Threshold for Clusters in Real-World Random Networks• Seminar Talks Given: Balanced Graph Partition Problems; The Diameter of a Scale-Free Graph; A Threshold for Clusters in Real-World Random Networks
	University of British Columbia 2006 - 2009 <i>BS - Combined Honours, Mathematics and Computer Science</i> <ul style="list-style-type: none">• GPA: 92• Courses: Computer Graphics, AI, Programming Languages, Software Engineering, Advanced Algorithms, Numerical Methods for PDEs, Compilers and Interpreters
PUBLICATIONS	Arron Norwell, <i>A Threshold for Clusters in Real-World Random Networks</i> . To Be Submitted. 2011

PROJECTS

Graph.js (2011)

<http://anorwell.com/graph>

- A Javascript Graph creation and visualization API using HTML 5 Canvas. Allows for flexible appearance and manipulation of graphs. The example app created using this API allows users to draw, save (either using HTML5 LocalStorage or to the cloud), and share their graphs.

Website (2010-11)

<http://anorwell.com>

- My personal website is a minimally-featured blog tool written from scratch. Implemented feature-equivalently in two versions: Ajax with a Python/MySQL backend, and PHP. Supports upload, storage, and display of posts and music, as well as comments using Facebook's comment system.

Resume Maker (2011)

<https://github.com/ANorwell/resume>

- A tool for creating multiple versions of a resume (or other document) by combining an Info XML file with template files that define the formatting to be applied to the info. For example, generate a latex and html version of the same resume. HTML/JS front-end to a perl backend. (This resume was automatically generated using this tool.)

English/Transliterated Persian Translator (2011)

<http://anorwell.com/engping>

- A web (JS + HTML) tool for translating from English to Transliterated Persian, or vice versa, using various google language APIs.

Graphics (2009)

<https://github.com/ANorwell/graphics>

- An implementation of some graphics algorithms and design patterns in C++ and using OpenGL/GLSL. Includes a surface subdivision algorithm that acting on an implementation of half-edge data structure, a scene manager, shader manager, quaternion camera, hit detection, and small shader library including a Phong shader. Compiles to a program with a game-like interface in which you can fly around graphics scenes.