Jenny Wong

csclub.uwaterloo.ca/~jy2wong/jenerated/resume.html
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I am a juggling, oboe-playing programmer, and I speak the language of mathematicians as easily as the language of people who have strong opinions about text editors. vim is the best

Education

- **University of Waterloo** *Bachelor of Mathematics (Honours Combinatorics & Optimization)*
  - Digital Signal Processing, Symbolic Computation, and Convex Optimization   Sept 2010-Apr 2014

Personal Projects   csclub.uwaterloo.ca/~jy2wong/jenerated/projects

- **Open Source Contributions**
  - Ported a GTK2 WebKit-based web browser, luakit, to GTK3.   github.com/jy2wong/luakit
  - Fixed several outstanding bugs in MyPaint   github.com/mypaint/mypaint
- **Data Structures and Algorithms**
  - Implemented and tested AVL trees, binary heaps, tries and a Huffman coder in C
  - Contributed example code to the Boyer-Moore string searching algorithm Wikipedia page
- **C Compiler**
  - Wrote a compiler that translated a subset of C to MIPS assembly
  - Implemented pointer arithmetic, conditional statements and loops
  - Optimized output using constant folding, propagation and SSA form-based dead code elimination techniques
- **Cali**   csclub.uwaterloo.ca/~jy2wong/jenerated/projects/cali
  - Simple natural language processor for dates and times, for a calendar or reminder application
  - Written in C using flex and bison, then again in Racket
- **Commandline Bus Schedule Printer**   github.com/jy2wong/grt
  - Wrote a Python script that queries an sqlite3 database for bus arrival times

Work Experience

- **University of Waterloo** *CS 145 Tutor*   Aug 2011-Dec 2011
  - Gave individually tailored explanations of functional programming concepts to students in the advanced level first term CS class
  - Created test cases to check student submissions for correctness and efficiency
  - Automated the testing and grading process with Bash and Python scripts
- **IBM Canada Ltd** *Student Intern*   Aug 2009, Summer 2010, Summer 2012
  - Maintained a programming resource website with fellow interns for high school students
  - Explained computer science concepts through different media including a heap sort demonstration catered to visual learners
  - Mentored campers for a one-week math/engineering-focused camp for girls

Awards

- University of British Columbia Optimization Workshop Contest Winner   2012
- University of Waterloo President's Scholarship of Distinction   2010

Extracurriculars

- **Computer Science Club** *Member*   Dec 2011-Apr 2014
  - Office staff and member of the systems committee
  - Co-ran and redesigned the club's UNIX 10X tutorials
- **Shad Valley** *Attendee, University of New Brunswick campus*   July 2009