

# George Steel

## Resumé

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## Highlights of Qualifications

- Experience across many different aspects of computer science including Web Development, Machine Learning, Functional Reactive Programming, Embedded Systems, Android App Development, Databases, UI Design, Digital Typesetting, and Image Processing.
- Strong background in the underlying mathematics of computing including the areas of Algebra, Category Theory, Foundational Logic, Theory of Computation, Numerical Analysis, Dynamical Systems, and Game Theory.
- Familiarity with a wide variety of programming languages including Haskell, C, C++, Python, SQL, Java, C#, and  $\text{\TeX}$ .

## Education

2010–Nov 2016 **University of Toronto**, *Hon. B. Sc. in Mathematics*.

- Minors in Computer Science and Biology.
- Graduated with High Distinction (GPA 3.9).
- Recipient of the George Roderick Fraser Scholarship in Mathematics for four years.

## Employment History

May 2016–present **Software Developer**, *Department of Linguistics, University of Toronto*.

- Created educational software currently used in introductory phonology courses (available at <http://phonology.us>)
- Currently working on a research project involving Automata Theory and Machine Learning.

Sept 2014–May 2016 **Private tutoring**.

- Assisted other U of T students in understanding course material (mostly math) during the school term.
- Helped a student overcome her difficulties and pass a specialist-level course she had failed on a previous attempt.

Sept 2013–Mar 2014 **IT Assistant/Tutor**, *ENAGB Youth Program, Native Canadian Centre of Toronto*.

- Created a responsive website for the ENAGB program (featuring a dynamic events calendar) which was heavily used for two years.
- Created a variety of promotional materials (posters, brochures, business cards, etc.) for the program.
- Helped students prepare for GED tests.

- Summer 2011, 2012 **Summer Research Assistant**, *Walker Labs, Department of Chemistry, University of Toronto.*
- Performed spectroscopy and microscopy supporting research into creating nanoparticle based markers for medical diagnostic use.
  - Developed a new spectrographic method for determining the shapes of sub-wavelength gold nanoparticles with much higher sensitivity than previously attained.
- Summer 2010 **Software Developer**, *Kerr Vayne Systems.*
- Created a web application to stream live-updating, real-time data for schedule display in a broadcast automation system.

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## Community Involvement

- 2013, 2014 **Participant**, *Mother Earth Water Walks.*  
Assisted in a campaign raising awareness of the issues threatening the Great Lakes and Lake Simcoe.
- Mar-May 2013 **Intern**, *Teaching Drum Outdoor School.*
- Completed all production work for the CD release of *Journey to the Ancestral Self* including designing the disc labels, cover, booklet, and figures.
  - Set up and built equipment for a recording studio and CD production operation.
  - Assisted with several outdoor projects including the spring leek harvest and repairing several buildings.
- 2012–2013 **Founding Member of Youth Advisory Council**, *ENAGB youth mental health program*, Native Canadian Centre of Toronto..
- Helped to guide the formation of a new mental health program dedicated to serving Native youth in Toronto.
  - Stayed involved with the program in other capacities afterwards (still ongoing).
- 2007–2010 **Stage Engineer**, *Aurora High School Drama Club and other school events.*
- Facilitated a wide variety of acts.
  - Ran and repaired sound and light equipment for plays and concerts.
  - Dealt with logistical crises and improvising solutions to keep the show going.
  - Helped to organize school concerts in 2007 and 2010.
  - Filled in for missing actors during rehearsals and once during a show.
- 2006–2010 **Founding member**, *Aurora High School Robotics Club.*
- Won of the Robofest regional championships in 2008, 2009, 2010, sending us to the World championships. 4th place in World finals in 2010.
  - Mentored the younger students (who had no prior experience) into their own winning team.
- 2006–2010 Set up, maintained, and repaired computer equipment for Aurora High School.
- 2005–2010 Assisted Special Needs class at Aurora High School.