WANDA B. K. BOYER

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EDUCATION

MSc. Completed Aug. 2016

Computer Science

University of Victoria

Victoria, B.C., Canada

Undergraduate Completed Apr. 2012

Combined Computer Science and Mathematics

University of Victoria

Victoria, B.C., Canada

RELEVANT SKILLS

Technical Skills

Programming languages:	Python, Java, C, C++	Working knowledge of algorithms and their corresponding datastructures, as well as their complexity analysis.
	LaTeX	Complex document construction, making use of numerous packages and tinkering with class files.
	Assembly	Experience working with registers, cache, memory maps, branching, and subroutines.
	PHP, JavaScript, HTML5/CSS	Experience using scripting languages in the context of web development.
Operating Systems:	Linux	Comfortable using terminal for package management, piping commands, and bash scripting. Regularly use VIM in the problem analysis and development process.
	Windows XP, Vista and 7	Knowledgeable about the Windows file systems, and work fluidly with the GUI as well as in DOS prompt.
IDE's:	PyCharm	Performing project management with venv's for different interpreter and package requirements. Comfortable using version control, specifically Git integration.
	Eclipse	Familiar with use of plugins to enable development in different languages, as well as setting up the use of version control, specifically Git.

Personal Skills

- Confident public speaker with a clear and comprehensive explanatory style.
- Excellent technical writing skills, expressing complex ideas concisely.
- Detail-oriented project management skills, easily coordinating tasks with team members.
- Highly personable, possessing a finely-tuned sense of professionalism.

PROJECTS

Modal Solver Suite PYTHON	A decision and minimization procedure for modal logic which allows for user-specified conditions on the relational structures produced, returning concrete visualizations if a pointed model exists for the input formula(s).
Solving Quasigroup Completion Problems JAVA	Encoded quasigroup completion problem as CNF formulas to which the MiniSAT boolean satisfiability solver were applied.
Description Logic subsumption JAVA	Determines which of two well-formed Brachman and Levesque description logic formulae subsumes the other, if they are equivalent, or if they are incompatible.
Simplex method JAVA	Implemented a primary technique of linear programming for solving systems of linear inequalities.
CryptoGUI JAVA	Experimenting with GUI programming in Java to facilitate the use of encryption algorithms provided in the BouncyCastle cryptography API.

In progress:

LoCoMath	Personal webpage and blog using Jekyll on GitHub pages.
Bayesian Confirmation	A site created using Bootstrap and d3.js which will be used to demonstrate the concept of Bayesian confirmation to students in Philosophy.

WORK EXPERIENCE

Teaching Assistant	Jan. - May 2013, Jan. - May 2014, Sept. 2014 - May 2015
Department of Computer Science	Wrote solution guides for assigned material and the accompanying grading rubric, marked work and gave detailed feedback, and used the Connex and Moodle learning management systems to enter grades and manage course resources.
Mathematical logic tutor	Jan. 2013 - May 2013, Sept. 2014 - Dec. 2014
Independent	Created comprehensive and diverse learning plans for students who required assistance in their study of propositional and predicate calculus, plus the metatheory.
Visitor Service Network Accessibility Analyst Co-op	May 2011 - Aug. 2011
Art Gallery of Greater Victoria	Incorporated a public wireless network into the existing network infrastructure, as well as created a content delivery system using Drupal to enable gallery patrons to access supplementary multimedia content for each piece in the gallery.
Quality Engineer Co-op	Jan. 2010 - Apr. 2010
IBM Canada LotusForms lab	Maintained the LotusForms software by creating and using test suites, both manual and automated; wrote detailed bug reports whenever an error was encountered, and worked with the development team to resolve them.

COMMUNITY INVOLVEMENT

Talks

Venue	Year	Title
SPACE Program	2016	A Decision Procedure for Modal Logic, With Applications to Quantum Kitten Theory
SPACE Program	2013	Game Theory and Modal Logic

Volunteer Work

Mentor at Data Insights with Python for Beginners Sept. 10th, 2016
Ladies Learning Code

Charity knitting group 2013
Beehive Wool Shop

Event host 2011-2013
Art Gallery of Greater Victoria

Security Aug. 4th, 2013
Symphony Splash

IT Admin assistant Sept. 2011 - May 2012
Art Gallery of Greater Victoria

Donation Barrel collector Jul. 31st, 2011
Symphony Splash

Donation Barrel collector Jul. 16th, 2011
Moss Street Paint-in
Art Gallery of Greater Victoria

AWARDS AND SCHOLARSHIPS

Title	Year	Description
UVic Graduate Award	2015	Received during undertaking of CSc master's degree.
UVic Fellowship	2012	Received upon entry to CSc master's degree.
UVic Outstanding Applicant's Award	2012	Received upon entry to CSc master's degree.
Simba Technologies Inc. Scholarship	2011	Awarded to a female undergraduate students in Computer Science and Engineering who have performed volunteer service in the community and/or demonstrated leadership in or outside of the classroom.
Undergraduate Research Scholarship	2010	Studied "almost Pythagorean triples" in relation to solving the Diophantine Equation $x^2 + y^2 = z^2 - \alpha$ for a variety of values of α using elementary methods.
President's Entrance Scholarship	2006	Received upon entry to CSc Undergraduate program.
Dean's Entrance Scholarship for the Faculty of Engineering	2006	Received upon entry to CSc Undergraduate program.
Bronze at National Science Fair	2003	Implemented the Sieve of Eratosthenes in Javascript, as well as several optimizations.

ACTIVITIES AND INTERESTS

I am a voracious reader, and enjoy immersing myself primarily in works of fantasy and science fiction. Additionally, I love reading popular science books, as well as more technical texts pertaining to mathematics and computing.

As a lifelong learner, I have undertaken several online courses through the edX platform, namely DEV210x (Introduction to C++) and MITX6.00.2x (Introduction to Computational Thinking and Data Science), and am currently enrolled in DAT203.3x (Applied Machine Learning) and DAT210x (Programming with Python for Data Science). I also have been brushing up on my French language skills using Duolingo, and have attended the French conversation café hosted at the UVic McPherson Library.

My artistic interests are diverse: I am an amateur singer, having sung second soprano and first alto parts in the University of Victoria Philomela Women's Choir and the Simon Fraser University Choir; an amateur artist specializing in traditional media such as ink and watercolour pencil crayons; and finally, an avid knitter.