JAMIE A. MACDONALD

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Objective

I am looking for immediate fulltime service- or sales-oriented employment. I have a deep desire to give back to the community which supported me in my four-year engineering undergrad at Queen's. I enjoy sparking relationships with strangers and am a devoted worker. Furthermore, I have a strong mathematics and programming background, and always strive to solve real-world optimization problems.

Education

2010–2014	**BSc Mathematics & Engineering, Computer and Communication Systems** Queen's University, Kingston Ontario

Projects

2013–2014	**Channel-Optimized Vector Quantization of Correlated Images for Transmission over a Wireless Channel (Fourth Year Project/Thesis)** Design & implement a Lossy Joint Source-Channel Code which exploits the Correlation in two random sources (images) (Information Theory, Discrete Cosine Transform, C programming, Python matplotlib, LaTeX writeup)
2010	**Child Soldier Cycle (Activism)** Biked 3000km from Ottawa to Newfoundland running an awareness campaign for child soldiering – collected over 1500 red handprints as a petition to the media to provide better coverage of global Child Soldiering issues Leadership, outreach, perseverance, organization

Work Experience

2009	**Customer Service Rep. / Registration – Canterbury Pool, City of Ottawa** Cash transactions; Course registration; Public relations for instructors
2009-2010	**PT Lifeguard/Swim Instructor – Canterbury Pool, City of Ottawa**
Summer 2011	**Park Programmer – Canterbury Park, City of Ottawa** Entertain and supervise children at wading pool Standard First Aid, National Lifeguard Service, AED & Oxygen, Swim Instructor
Summer 2014	**Software Programmer – IBM Watson Visualization Engine** Maintain charting/vis engine (Java); frontend JS demo app; agile development; Java AWT, canvas; GeoJSON Collaborate with an international team; build strong communication skills

Activities

Clubs: Queen's Hack Nights
Programming: Web app development
Recreation: Yoga, Biking, Longboarding
Music: Keys, Trumpet, Voice (let's jam!)