

# JAMIE A. MACDONALD

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## Objective

I am looking for immediate fulltime service-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.

## Education

2010–2014	<b>BSc Mathematics &amp; Engineering, Computer and Communication Systems</b> Queen's University, Kingston Ontario
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## Projects

2013–2014	<b>Channel-Optimized Vector Quantization of Correlated Images for Transmission over a Wireless Channel (Fourth Year Project/Thesis)</b> 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	<b>Child Soldier Cycle (Activism)</b> 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	<b>Customer Service Rep. / Registration – Canterbury Pool, City of Ottawa</b> Cash transactions; Course registration; Public relations for instructors
2009-2010	<b>PT Lifeguard/Swim Instructor – Canterbury Pool, City of Ottawa</b>
Summer 2011	<b>Park Programmer – Canterbury Park, City of Ottawa</b> Entertain and supervise children at wading pool Standard First Aid, National Lifeguard Service, AED & Oxygen, Swim Instructor
Summer 2014	<b>Software Programmer – IBM Watson Visualization Engine</b> 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!)