

JAMIE A. MACDONALD

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Objective

I am looking for **fast-paced** summer employment in the field of **Software Development**. I have a strong **math and programming background** from my studies and hobbies, and I am excited by clean, simple, **innovative** solutions to human problems.

Education

2010–2014	BSc Mathematics & Engineering, Computing and Communication Queen's University, Kingston Ontario
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Programming

Python web development in Django, Flask; OOP; scripting; Abstract Syntax Tree parsing; Closures; Decorators; list comprehensions; Matplotlib, Scipy, Numpy; Sphinx; **bash** automation; scripting; **C** Makefiles; compiler flags; memory management; **Java** Generics, Interfaces, Polymorphism, swing; **C++** OOP; **Javascript** Coffeescript; event handlers; **HTML**, **CSS** Liquid, Jinja templates; SCSS; Box model; **Octave**, **Matlab**; **LaTeX**

Projects

2013–2014	Channel-Optimized Vector Quantization of Correlated Images for Transmission over a Wireless Channel (Fourth Year Project/Thesis) Implement a Lossy Joint Source-Channel Code which exploits the Correlation in two random sources (images) (Information Theory, C programming, Python matplotlib, LaTeX writeup)
2010	Child Soldier Cycle 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

Activities

Open Source contributions: Openbox (C), Nitrogen (C++ GTK)

Clubs: Queen's Hack Nights

Recreation: Rockclimbing, Biking

Blog: <http://jameh.github.io> (Jekyll, SCSS, Liquid, Markdown)