

Michael Joya

Updated: Sept. 2012

Contact Information:

mike@michaeljoya.com

250-884-5642 cell

250-598-6175 home

Mailing Address:

1803 Davie St.

Victoria, BC

Canada V8R 4W5

Summary:

My programming skills are complemented by experience with numerical optimization, statistics and probability theory, and signal processing. I enjoy problems that require algorithmic development. I can comfortably write code in a wide variety of other languages.

I'm flexible to working on a wide range of information technology and software development tasks that include quality assurance, testing, source code and document management, and data management. If you belong to a party that needs work done in these areas by someone with a broad range of computing expertise and the motivation to learn something new, please contact me.

Proficiencies:

Programming languages:

- *Programmer of various languages for over 15 years*
- *Java, Scala, C/C++, Python 2&3, C#, Perl, Javascript, MATLAB 2009-2011, SQL 92/99*
- *3 years experience teaching programming and logic to University students*

Information Technology:

- *Linux user of 10+ years: competent with bash scripting and most text manipulation commands (grep, awk, sed, find, etc)*
- *Proficient in the use of 'git' and 'svn' as versioning control systems, including branching, tagging, and backups.*

Web standards languages:

- *HTML/CSS authoring and design, XML, XPath/XSLT*
- *2 years experience as a server-side web application developer using the Java language*

API and technical experience:

- *Java Servlets / JSP, JDBC, JUnit, MPI, OpenGL, CUDA*
- *Small programs for GPU architectures*

Software:

- *MySQL, Apache, Eclipse IDE*

Work Experience:

- 2009-2012 Teaching Assistant, Department of Computing Science, University of Alberta
Contact: Dale Schuurmans, Professor: dale@cs.ualberta.ca
Contact: Guo-Hui Lin, Professor: guohui@cs.ualberta.ca
Bioinformatics placements may also contact Russ Greiner, Professor: rgreiner@ualberta.ca.
Russ supervises a machine learning and bioinformatics research/reading group that I belonged to.
- 2008 (Summer) Research Assistant, LCI Laboratory, University of British Columbia
Software development and support for the "Semantic Robot Vision Challenge" team. Our entry won the CVPR '08 SRV Challenge in this year.
Contact: Jim Little, LCI Professor: little@cs.ubc.ca
- 2000-2002 Software Developer, XML Global Research & Development
Lead developer for the "GoXML Registry" project team. This product implemented a set of new open electronic business standards in the Java language. It supported compatibility with a variety of SQL databases and the company's own XML database technology. Project tasks included architectural design, technical / business liaison, and consultation with executive management.
Contact: Lawell Kiing, former VP: lawell_kiing@yahoo.com 604-647-8710
- 2000 Software Support Developer, ecMarket.com
Tasks involved development of electronic payment processor modules in Perl, development of automated installation and configuration utilities in Perl and with Java servlet / JSP technology.
Contact: Mack Hardy, software development manager: mack@mackhardy.com

Education:

- 2009-2012 M.Sc. Computing Science, University of Alberta
Areas of study: machine learning (graphical models, kernel methods, stochastic processes), optimization, signal processing
- 2004-2009 B.Sc. Computer Science, University of British Columbia
Areas of study: machine learning, machine vision, AI, neuroscience, computer systems

Scholarships:

- 2008 NSERC Undergraduate Student Research Award
LCI Laboratory: Application to robotic path planning for a computer vision application