

# Gregory Lu

201-5255 Avenue du Parc • Montréal, QC • H2V 4G9  
(514) 815-3611 • greg.lu@gmail.com • www.greglu.com

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## Skills

- Programming and related topics: Ruby, Java, C, C++, PHP, Scala, HTML, CSS, MySQL, Hadoop, MapReduce, HBase (and the Bigtable model), and Solr.
- Version control systems: Git, Subversion and Perforce.
- Testing: test/behaviour driven development; unit, functional, integration and application testing. Tools: Rspec, Cucumber, Selenium, WATIR, Junit.
- Web Development: Ruby on Rails, Capistrano deployment, project management applications (Trac, Redmine, Basecamp and Lighthouse), SOAP/REST, and Amazon Web Services
- Operating Systems: Microsoft Windows, Linux, Mac OS-X.
- Productivity/Office software: Microsoft Office and Adobe Photoshop.

## Education

### McGill University

B. Eng. Software Engineering ~ Expected May 2010

### Marianopolis College

DEC in Pure and Applied Sciences ~ June 2005

## Experience

### Openplaces.org

*Intern Developer, summer 2009*

As an intern, I was involved in nearly all aspects of the company's core application. I worked on production deployed code that included Ruby and Java programming. The tools and frameworks I used were Ruby on Rails (for front-end development), and backend processing done in Hadoop/MapReduce. My work here also led me to the Bigrecord and Bigindex open-source projects.

[Montreal, QC]

### Enell Creative

*Project manager and lead developer, 2008*

I was contracted by a software company to design and develop an issue tracking system to provide a more direct line of communication to their clients. I was responsible for the entire process from conception, development, and to deployment. The project was completed on time, on budget, and according to specifications.

[Montreal, QC]

### Intu Studios

*Contractor, summer 2006*

I was contracted to develop an online product catalogue in Ruby on Rails with a public front end, and an administration system for non-technical users. I had the opportunity to implement new Ajax functionality, and delivered a solution that was praised for its usability.

[Montreal, QC]

## Projects

### **Bigrecord**

*Open-source Contributor*

This project was created by openplaces to connect the Ruby on Rails framework with HBase databases (based on Google's Bigtable model). It is derived from the Activerecord project, and shares many of the same features and code-base. I was responsible for open-sourcing this project, which included writing a full spec suite (in Rspec), refactoring large portions of the code, adding in new features, documentation, and finally releasing it on Github.

### **Bigindex**

*Creator*

From my work on Bigrecord, the inherit limitations of the Bigtable model (when compared to a relational model) required indexing functionality to be included in order to achieve a more complete set of features. Bigindex was the project that came out of this need, and I started it as an indexer agnostic (currently supports Solr) plug-in that could index any Ruby model and provide searching capabilities on it.

### **Metranome**

*Creator and developer of [www.metrano.me](http://www.metrano.me)*

This is a personal project that I designed and developed in my spare time, and is a collaborative information network for students to share course resources. I used behaviour driven development to test and develop the application simultaneously, and achieved a 2:1 test to code ratio. I implemented or used various technologies such as Ruby on Rails, MySQL, Rspec BDD testing framework, Capistrano software deployment, GIT version control system, Amazon Web Services, RSS feed, and REST web services. For a more complete description of the project, please refer to the demo section of my online portfolio at [www.greglu.com](http://www.greglu.com)

### **iPass**

*Project Manager*

This was a semester long project for the course Software Engineering Practice (ECSE-428). My group of 6 members was tasked with creating a software application using the development lifecycle of SCRUM and agile practices. My group conceived a project to recreate the university's poorly designed course software system, and create a much more usable product that focused on implementing the most vital features. The project was divided into 3 sprints, all of which were completed on time, and resulting in a final A grade.

### **Virtual Office**

*Lead developer*

For the senior design project of my degree, my group was tasked with creating a business collaboration tool, similar to Campfire, within one semester. I recommended the use of Ruby on Rails, and given my experience, I became the group's leader. My responsibilities included development, project management, and mentorship for the other group members. The project was completed on time, to specification, and received an A grade.