# **Bao Pham**

Combined Major Computer Science and Mathematics - 3rd year

#### TECHNICAL SKILLS

• Languages: Python, Ruby, Java, C++, Shell script

• Database: PostgreSQL, MongoDB

• Web Development: HTML, CSS, PHP, JavaScript, jQuery

• Version Control: SVN, Git

• Operating Systems: OSX, Windows, BSD UNIX

• Content Management: Drupal

## SCHOOL PROJECTS

## **Basic Algorithms and Data Structures CPSC 221**

- Implemented a maze solver algorithm in C++
- Achieved 100% for the project

## **Introduction to Software Development CPSC 211**

- Designed and implemented a photo library application to display photos using Java Swing
- Employed JUnit testing
- Implemented tag cloud as a bonus
- Achieved over 100% for the project

## **Introduction to Computation CPSC 111**

- Implemented the Game of Life in Java a cellular automaton devised by the British mathematician John Horton Conway
- Achieved 100% for the project
- Being inspired by the success of the project, ported the Java program into HTML5 and JavaScript

# PERSONAL PROJECTS

## Personal website

- <a href="http://baopham.heroku.com">http://baopham.heroku.com</a> powered by Ruby/Rack
- A site for me to learn and explore new technologies
- Includes interactive chess game, matrix calculator, Game of Life animation using HTML5 and JavaScript

## Github Repos

- http://github.com/baopham
- Languages: Ruby, Python, VimL, PHP, JavaScript

#### WORK EXPERIENCE

Web Developer (Co-op) May 2012 – Aug 2012

**UBC** Computer Science

- Learned PHP and Drupal from scratch
- Created a PHP web application to convert bibliography files to CSV
- Developed 2 custom modules for UBC Drupal website:
  - » Integrate with UBC's recording system and let user schedule a recording
  - » Add custom rule validations for a content type
- Implemented a BibTeX plugin for Drupal module "Views Datasource"

## **Bioinformatics (Co-op)**

Sept 2011 – Apr 2012

Genome Sciences Centre

- Key person to process the team QC's reports
- Developed Python modules for the team to parse report files to HTML and upload to Plone
- Collaborated closely with the team members to help produce and format accurate reports
- Coded shell scripts to extract data from the system
- Had the opportunity to work with the underlying distributed system consisting of multiple databases
- Displayed strong analytical skills by finishing work with minimal supervision and in a short period of time

**Private Tutor** 

Sept – Dec 2010

- Tutored a Grade 12 student in Math
- Motivated and encouraged her to excel in the subject

#### **VOLUNTEER EXPERIENCE**

Patient Assistant

May 2009 - 2010

**Burnaby Hospital** 

- Helped elderly patients be more active and feel more comfortable
- Actively engaged them in conversation to make them happy

**Career Days Host** 

Sept – Oct 2009

**UBC** 

- Organized the program where 65 employers and 45 graduate schools come to present themselves and attract potential students
- Helped the employers and graduate schools' representatives set up their presentations
- Guided students to the right place and provided answers to their queries

Cashier at Gift Shop

Sept 2007 – 2008

Vancouver General Hospital

- Accurately handled various types of transactions such as credit, cash, cheques and balancing of accounts at the end of shifts
- Restocked and delivered flowers to patients

#### **EDUCATION**

#### **University of British Columbia**

• Awarded President Entrance Scholarship for excellent performance in High School

#### INTERESTS

• Computer Science, Mathematics, Technology, Web Development, Music, Poetry, Literature