

Bao Pham

Combined Major Computer Science and Mathematics - 3rd year

TECHNICAL SKILLS

• Languages: PHP, Python, Ruby, Java, C++, MATLAB, Assembly

• Database: MySQL, PostgreSQL

• Web Development: HTML, CSS, JavaScript, jQuery

• Version Control: SVN, Git

• Operating Systems: OSX, Windows, BSD UNIX

• Content Management: Drupal

SCHOOL PROJECTS

Interactive Design CPSC 3240

• Won 3rd place for the roup project on the improvement of the photocopy machine interface

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

- http://baopham.heroku.com 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:
 - » Integrated with UBC's recording system to let user schedule a recording and upload to Youtube
 - » Added customizable features to Computer Science room booking system
- Implemented a BibTeX plugin for Drupal module "Views Datasource"
- Provided patches for various Drupal modules, such as Organic Group, OG Access Roles, Node Access User Reference, OG Archive Groups.

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 Math Tutor

Sept – Dec 2010

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

EDUCATION

National University of Singapore

- Participated in the UBC Exchange program
- Received NUS-UBC Lee Foundation Award
- Won 3rd place for an HCI group project on the improvement of the photocopy machine interface

University of British Columbia

• Awarded President Entrance Scholarship for excellent performance in High School

INTERESTS

• Computer Science, Mathematics, HTML5, JavaScript, Ruby, Vim, ZSH