

PHONG V. CAO

450 Circle Road • 106B West I Building • Stony Brook • NY 11790-3411
(631) 375-6005 • phongvcao@phongvcao.com • www.phongvcao.com

EDUCATION

Stony Brook University
Bachelor of Science in Computer Science

Stony Brook, NY
May 2015

COMPUTER SKILLS

Database: Microsoft Access, MySQL, SQLite, PostgreSQL
Operating Systems: Microsoft Windows, Redhat/Fedora Linux, Ubuntu Linux
Software: Drupal, Acquia, Apache, Varnish, CAS, Cron, Adobe Photoshop, Illustrator, Dreamweaver
Programming Languages: C, C++, Java, Python, JavaScript, Visual Basic, SML
Libraries: STL, Boost, Django, Swing, jQuery, SQLite3, Bootstrap, AngularJS, enchant.js, MediaInfo, Libxml2
Linux Libraries: GTK+/Gtkmm, GStreamer/GStreamermm, libxml++, libnotify, gettext
Markup/Scripting/Query Languages: HTML, CSS, XML, XSD, SQL, Bash, VimL
Development Tools: Eclipse, Netbeans, Vim, Git, GDB, GCC, Valgrind, Autotools, GNU Make

RELEVANT EXPERIENCE

Stony Brook University Stony Brook, NY
Research Assistant - Computer Science Department Sept 2014 - Present

- Collaborate with 6 other students under the supervision of Professor Richard McKenna to develop the web version of PathX.
- Lead the design and implementation phases of the project along with 2 other team members.
- Design Patterns & Algorithms: *Dijkstra's Shortest Path, Graph Cycle Extraction (DFT), Singleton, Observer, Prototype, Facade*

Stony Brook University Stony Brook, NY
Student Programmer - Division of Information Technology May 2014 - Present

- Collaborate with OVRP DoIT Team to develop <http://research.stonybrook.edu/>, the official website of Stony Brook Research Office.
- Script an Oracle Taleo theme for Stony Brook At Work, a HRMS used by SBU Human Resource Services.
- Notable Contributions: *YoutubeVideoGallery, MightySliderView, Fluid Mobile Layout, HRSTaleoBranding, DynamicImgMap*

Stony Brook University Stony Brook, NY
Teaching Assistant - Computer Science Department Sept 2013 - Dec 2013

- Assist students during lab sections by reviewing lecture notes, homework assignments and lab exercises.
- Proctor examinations with instructors and other teaching assistants.
- Classes Assisted: *Object-Oriented Programming in Java (Dr. Paul Fodor)*

PROGRAMMING PROJECTS

Dingo Media Manager Stony Brook, NY
Personal Open-Source Project Jun 2011 - Present

- Develop and maintain Dingo Media Manager, an open-source software that helps Linux users manage and enjoy their video and audio collections.
- Languages Used: C, C++, SQL (SQLite), XML
- Libraries Used: Boost, Gtkmm, GStreamermm, MediaInfo, SQLite3, libxml++, libnotify, gettext
- Design Patterns: Observer, Delegation, Facade, Model-Delegate (Model-View-Controller)

PathX Mini-Game Stony Brook, NY
Programming Course Final Project Feb 2014 - May 2014

- Developed PathX, a single-player mini-game where the player assumes the role of a robber driving through numerous obstacles to bring the robbed money to the hideout.
- Languages & Libraries Used: Java, XML, Swing, XSD
- Algorithms Applied: Dijkstra's Shortest Path, Depth-First Traversal (Graph Cycle Extraction), Recursion
- Design Patterns: Singleton, Prototype, Observer, Delegation, Facade, Model-View-Controller

Stony Brook Research Stony Brook, NY
Part-time Job Team Project May 2014 - Present

- Collaborate with OVRP DoIT Team to develop <http://research.stonybrook.edu/>, the official website of the Office of the Vice President for Research.
- Languages Used: PHP, JavaScript, HTML, CSS
- Technology Stack: Acquia, Drupal, Varnish, Apache, MySQL, CAS
- Libraries Used: PHPTemplate, phpCAS, jQuery, jQuery UI, Bootstrap, MightySlider