PHONG V. CAO

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EDUCATION

Stony Brook University   Stony Brook, NY
Bachelor of Science in Computer Science   May 2015
Relevant Coursework: *Analysis of Algorithms, Finite Automata, Object-Oriented Analysis & Design, Theory of Computation, System-Level Programming, Discrete Mathematics, Calculus, Statistics & Probability, Linear Algebra*

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, PHP, Visual Basic
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 - Sept 2014
• Collaborate with OVPR 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 - Sept 2014
• Collaborate with OVPR 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