

# PHONG V. CAO

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## EDUCATION

**Stony Brook University**  
Bachelor of Science in Computer Science

Stony Brook, NY  
May 2015

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## 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

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## 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)*

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## 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