

# PHONG V. CAO

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## EDUCATION

### Stony Brook University

Bachelor of Science in Computer Science

Stony Brook, NY

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*

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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, 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

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## RELEVANT EXPERIENCE

### Stony Brook University

Research Assistant - Computer Science Department

Stony Brook, NY

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

Student Programmer - Division of Information Technology

Stony Brook, NY

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

Teaching Assistant - Computer Science Department

Stony Brook, NY

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

Personal Open-Source Project

Stony Brook, NY

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

Programming Course Final Project

Stony Brook, NY

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

Part-time Job Team Project

Stony Brook, NY

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