

VALERIE GARTLAND

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WORK EXPERIENCE

Shodor – Durham, NC

2006-Present **Web Developer / Computational Science Educator**

- Built and managed the High Performance Computing University website: www.hpcuniv.org
 - Maintained and developed backend for catalog system and improved features for searching, browsing, reviewing, and submitting metadata.
- Designed and built a new site for the National Computational Science Institute: www.computationalscience.org. This site facilitates registrations for faculty workshops and the SC Education Program.
 - Designed a tool for administrators to build customized surveys and review answers.
- Mentored interns and high school students working on several database-driven websites. Features my interns developed have been used in conferences and workshops.
- Taught scientific modeling and simulation in workshops for college faculty as well as students ranging from elementary school to the undergraduate level.
- Managed registrations and payments for more than 90 students attending 8 SUCCEED workshops at Shodor in the summer of 2008.

Duke University – Durham, NC

2005 **Academic Research Programmer – Distributed Mentor Project**

- Proposed and implemented improvements to JAWAA, educational software that models data structures using animation.

The Laboratory for Advanced Software Engineering Research, University of Massachusetts – Amherst, MA

2004 **Academic Research Programmer – Distributed Mentor Project**

- Proposed extensive improvements to educational software which models finite state automata. Designed a new graphical user interface to enhance usability.

Western Carolina University – Cullowhee, NC

2003-2006 **CS Tutor and Teacher Assistant**

PROGRAMMING LANGUAGES & VERSION CONTROL

PHP (3 years) – MySQL (3 years) – Java (5 years) – HTML (6 years)

JavaScript, CSS, XML, SVN, Git, Google Maps API, C++, C, NetLogo

OPERATING SYSTEMS

Unix, Mac OSX, Windows, Linux

EDUCATION

Western Carolina University Cullowhee, NC

2006 **B.S. Computer Science, Summa Cum Laude**

Dean's List, Honors College Graduate, University Scholar,

Senior Computer Science Award, Sophomore Computer Science Award

OTHER INTERESTS

- Math tutoring with Neighbor to Neighbor Outreach.
- Proficient in Spanish. Travelled to Argentina (2007) and Mexico (2003).
- Published artist. Portfolio at valeriegartland.com/art.
- Studying Classical Guitar.