

OBJECTIVE: To obtain a position in the field of Computer Science.

EDUCATION: **Bachelor of Science in Computer Science, May 2009 • Worcester Polytechnic Institute, Worcester, MA • GPA: 3.43**

Relevant Courses: Software Engineering, Systems Programming Concepts, Object-Oriented Design Concepts, Software Security Engineering, Webware, Comp. Networks, Distributed Comp. Systems, Operating Systems, Database Systems, Algorithms, Foundations of Embedded Comp. Systems, Intro to Electrical and Comp. Engineering, Intro to Digital Circuits and Comp. Engineering

**COMPUTER/
TECHNOLOGY
SKILLS:**

- Application Programming: Java, Python, Linux Shell Script (Bash), MySQL
- Web Programming/Design: PHP, JavaScript (including jQuery), MySQL, JSP, HTML5, CSS/CSS3, XHTML
- Computer repair, software and hardware installation and troubleshooting: Windows, Mac and Linux
- Computer graphic design and animation: Adobe Photoshop and Adobe Flash
- Computer music composition and arrangement: Propellerhead Reason
- See original software, web sites, music and more at <http://joshdick.net>

EXPERIENCE: **Software Engineer**, Cisco Systems, Boxborough, MA, 2009-Present

- Work in the Customer Contact Business Unit of Cisco's Voice Technology Group to develop IP telephony applications

Technician, Personal Business, Fairfield, CT, 2000-Present

- Fix miscellaneous computer problems and perform home network installation for various clients
- Design, improve and maintain web sites for various clients

WPI Helpdesk Specialist, Worcester Polytechnic Institute, Worcester, MA, 2007-2009

- Provided phone, e-mail and in-person computer tech support for faculty, staff and students at WPI

Software Engineering Intern, Cisco Systems, Boxborough, MA, Summer 2008

- Worked in the Customer Contact Business Unit of Cisco's Voice Technology Group to develop a Java/JSP-based web application prototype

Lead Instructor, iD Tech Camps, Fairfield, CT, Summers 2006-2007

- Taught Java programming, Multimedia Fusion video game creation and Vex Robotics to students aged 10-17

PROJECTS: **A Virtual Team Room for Wonderland**, Sun Microsystems (Worcester Polytechnic Institute Senior Project), 2008

- Worked with a fellow student and with representatives from Sun Labs to develop two interactive components for Project Wonderland, an open-source toolkit from Sun Labs for creating collaborative 3D virtual worlds

GuitARMHero, Independent Project, 2008

- Worked on a team of four to create a device that plays the game 'Guitar Hero III' automatically
- Wrote C++ code to control game play, executed on an ARM9 processor on a development board running embedded Linux

Copyright Law in the Digital Age, Worcester Polytechnic Institute, 2007-2008

- Worked on a team of three on a research project focusing on copyright law in today's digital world, analyzing actions taken by the US movie and music industries

WPI Sufficiency Project (Music Composition), Worcester Polytechnic Institute, 2007

- Worked with a fellow student to compose and digitally record and master a 25 minute computer-synthesized music album using Propellerhead Reason

miniProxy (formerly PageForward), Independent Project, 2005-Present

- Wrote an efficient web proxy program in PHP by retooling and improving an older open-source program
- Released as open-source software, has been downloaded over 10,000 times
- See <http://pageforward.sf.net> and <https://github.com/joshdick/miniproxy> for details

ACTIVITIES: **Stage Band and Jazz Ensemble**, Worcester Polytechnic Institute, Percussionist, 2005-2009

Game Development Club, Worcester Polytechnic Institute, 2005-2009

- Game Development Club Linux System Administrator and Webmaster, 2007-2009

WPI Wireless Association (Ham Radio Club), Worcester Polytechnic Institute, 2008-2009