

## QUALIFICATIONS SUMMARY

**Languages:** Ruby/Rails, Perl, PHP, JavaScript, Processing, SQL, CSS, HTML

**Special Hardware/Software:** Arduino, Ableton Live (audio), ProTools (audio), Max/MSP/Jitter (audio/video), sensors and interactive devices.

**Databases:** MySQL/MariaDB, PostgreSQL, LDAP

**Tools:** AWS (EC2, S3, RDS), Agile, Docker, Git, Subversion, WordPress, JQuery, Node.js, Capistrano, Cucumber, RSpec, Ableton, ProTools, Sublime Text, Coda

**Operating Systems:** OS X, Linux (CentOS, Ubuntu), Windows, MS Server 2012

## EDUCATION

**University of Virginia:** Ph.D., Composition and Computer Technologies, 2004 - 2010

**Stanford University:** Visiting Researcher, 2002 - 2003

**Dartmouth College:** M.A., Computer Music, 1999

**University of Florida:** B.A., English, 1997 (Magna Cum Laude)

## WORK EXPERIENCE

*University of Virginia (7/13 – present)*

*Title: Infrastructure Applications Engineer*

*Charlottesville, VA*

*www.virginia.edu*

Project managed migration of UVA's critical JointVPN LDAP service, which controls authentication and authorization for highly secure internal assets, to new infrastructure with no service downtime.

Migrated UVA's PHP and Perl-based Gmail account provisioning systems to the new Google Directory Services API before deprecated Google Provisioning API expired. Maintained service continuity during migration.

Project Manager for Central User Database conversion project. Designed and oversaw conversion process for legacy flat-file database of 600,000+ user records. The conversion entailed moving the large legacy codebase into version control, supervising the engineer who cleaned up the build code, and deploying the critical system to production without incident.

*Teachstone Training, LLC (5/11 – 3/13)*

*Title: Senior Web Developer*

*Charlottesville, VA*

*www.teachstone.com*

Instrumental in conversion of Teachstone's bloated PHP legacy systems to streamlined Ruby on Rails. Worked with development team using Scrum/Agile methodology to gather requirements, create user stories, and demonstrate progress during bi-weekly sprints.

Maintained, rewrote, and refactored Teachstone's significant legacy PHP codebase and MySQL database.

*Vindicia, Inc. (1/04 – 7/04)*

*Title: Software Engineer*

*San Mateo, CA*

*www.vindicia.com*

Implemented a scalable OpenLDAP-based authorization system to control internal and external access to Vindicia's servers. LDAP database was synchronized with a central Postgres database.

Designed an automated system that parsed daily data feeds from clients, analyzed them, and converted them to human-readable formats.

*The Betty Mills Company (6/02 – 1/04)*

*Title: Software Development Manager*

*San Mateo, CA*

*www.bettymills.com*

Sole technical lead and system administrator. Responsibilities included: full stack back and front-end development of retail website, maintenance and backup of Linux-based production webserver, , system administration, sales and customer management features for live and internal sites.

*Cogneo (3/02 – 6/02)*

*Title: Web Applications Engineer (contract)*

*San Mateo, CA*

Wrote and integrated OO Perl applications using the Perl Mason templating library.

*Zack Systems (9/99 – 8/01)*

*Title: Senior Software Engineer*

*San Mateo, CA*

Used OO Perl, CGI, MySQL, Javascript and HTML to create a shared browsing and chat application, allowing multiple users to surf the web together via a linked browsing mechanism.

## **BOARDS**

Vice President, Westminster Child Care Center, Board of Directors. 2013 – Present.

Member, Piedmont Council for the Arts, 2030 Advisory Board. 2015 – Present.

## **HONORS, AWARDS, FELLOWSHIPS, AND GRANTS**

University of Virginia Arts Council Grant, 2014

Turbulence.org/National Endowment for the Arts new work commission, 2012

Graduate School of Arts and Sciences Dissertation Year Fellowship, 2009 - 2010

Double Hoo Grant from the University of Virginia, 2010

University of Virginia Award for Excellence in Scholarship, 2008

Jefferson Fellow at the University of Virginia, 2004 - 2008

National Merit Scholar, 1993 - 1997

Florida Undergraduate Scholarship, 1993 - 1997