

# Mackenzie R. Morgan

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Silver Spring, MD 20906, (512) 981-6226, maco@mackenzie.morgan.name, GitHub: maco, Launchpad: maco.m

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## Work Experience

FULL MEASURE EDUCATION

WASHINGTON, DC

*Senior Software Engineer*

FEBRUARY 2016–JANUARY 2017

- Ensured accessibility (508 compliance) on software for government-funded schools
- Extended, tested, and validated interfaces between Ruby on Rails and proprietary systems
- Identified constraints and capabilities of Angular Material to implement requested designs
- Performed automated unit testing for Ruby on Rails (RSpec) and JavaScript (Karma)
- Added authorizations to new API calls using CanCan

SOCIALCODE (FORMERLY TROVE)

WASHINGTON, DC

*Software Development Engineer*

AUGUST 2015–PRESENT

- Developed new pages and modules on Python-backed Node.js/Underscore/Backbone app

SCA BARONY OF STORVIK

WASHINGTON, DC

*Volunteer Webmaster*

FEBRUARY 2013–DECEMBER 2015

- Created a custom WordPress theme (PHP, Less CSS, HTML5)
- Ensured licensing permission for all media

CISCO SYSTEMS (FORMERLY SOURCEFIRE)

COLUMBIA, MD

*Software Engineer II*

JANUARY 2011–JULY 2015

- Made architecture changes in response to evolving customer and hardware requirements
- Maintained framework for packaging product upgrades (shell, Perl, make)self)
- Maintained tools useful to administrators of our product (Perl)
- Wrote developer docs and QA testing guide for upgrade framework
- Integrated product with OEM hardware systems

POPVOX

*Developer (Contractor)*

MARCH 2012–OCTOBER 2013

- Developed new features and APIs in Django application, including database schema design (Python, Javascript, HTML, JSON)
- Created embeddable widgets and JSON APIs (Python/Django)
- Maintained scripts to fetch data from the Library of Congress and generate reports (Perl, L<sup>A</sup>T<sub>E</sub>X)
- Used AWS tools to spin up and deploy software from git to redundant systems
- Maintained Ubuntu/AWS environment and scripted AWS deployment for redundant systems
- Assisted in data migration from MySQL to PostgreSQL
- Transitioned the team to using GitHub for development, including writing process documentation
- Maintained Perl scripts gathering data from official government sources
- Maintained LaTeX generation script for reports

BLUE STORM TECHNOLOGY (CONTRACTOR)

RESTON, VA

*System Analyst/Programmer*

APRIL 2010–DECEMBER 2010

- Performed security certification & accreditation (DISA STIG)
- Reverse-engineered Ubuntu system images and application dependencies to provide Red Hat packages

SINE NOMINE ASSOCIATES

ASHBURN, VA

*Test Engineer*

MARCH 2009–APRIL 2010

- Qualified builds and packaged releases of OpenAFS on AIX 5.3, Solaris 8, 9, & 10 SPARC, Solaris 10 x86, RHEL 4 & 5 x86, and SUSE 9 & 10 x86\_64
- Documented process for building OpenAFS on various platforms
- Collaborated on design for a new network-based filesystem

APPLIED SECURITY, INC.  
*Systems Engineering Intern*

RESTON, VA  
MAY 2008–AUG 2008

- Developed automated unassisted install scripts for Red Hat servers (Kickstart)
- Created and maintained software packages (RPM)
- Set up a Yum repository for distributing software updates

WASHINGTON POST NEWSWEEK INTERACTIVE  
*Research Assistant Intern*

ARLINGTON, VA  
SEP–DEC 2007

- Increased efficiency of adding new blogs by customizing Movable Type & templates (Perl, CSS, JS, HTML)
- Scraped government websites to CSV for database input (Python)
- Found SQL injection vulnerability in Hillary Clinton's 2008 presidential campaign site

## Free & Open Source Software Development Experience

GROWSTUFF

*Maintainer*

MAY 2014–PRESENT

- Develop and test new features using Agile process (Ruby on Rails, RSpec)
- Tracking acceptance testing and release preparedness
- Review and merge pull requests, including mentorship of new developers

UBUNTU LINUX

*Developer (committer as of 2009)*

FEB 2007–JAN 2012

- Maintained deb packages in Universe component, including writing and reviewing patches
- Mentored developers-in-training
- Determined which contributors get commit privileges

VARIOUS PROJECTS

*Contributor*

- Spree: extension updates to work with API updates (Ruby on Rails) 2014
- Gally: created sign language tutor desktop application (Python, Qt, KDElibs) 2009 • Linux kernel: added quirk to fix audio issue with suspend/resume (C) 2009
- GNOME Terminator: fixed accessibility bug using PyGTK (Python)

## Skills

LANGUAGES:

Ruby, Python, Perl, PHP, SQL, (X)HTML, CSS, Javascript, bash, sed

TOOLKITS & FRAMEWORKS:

GTK+, GLib, PyGTK, PyQt, PyKDE, JQuery, Django, Rails, Ionic, Angular Material, AngularJS, BackboneJS

PLATFORMS & TOOLS:

Linux (Ubuntu, Debian, Red Hat, SUSE), Mac OS X, Solaris 8–10, AIX 5, bzip2, svn, cvs, git/GitHub, L<sup>A</sup>T<sub>E</sub>X, Amazon AWS

## Education

George Washington University, BS Computer Science

## Speaking Engagements

- “Don't Get Cracked on Hostile WiFi” at Ohio Linux Fest 2008
- “Sysadmins' Rosetta Stone” at Ohio Linux Fest 2009
- “Is Linux Secure?” at Southeast Linux Fest 2010
- “Ubuntu Development Processes” at FOSSCON & Southeast Linux Fest UbuCon 2011