



\$ whoami
Kevin_Mittman

github - @mittman, @oshazard, @justbrowsing

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EXPERIENCE

Systems Software Engineer II

Jan 2017 – present

NVIDIA Corporation – CUDA Installer

- Designed AUTOPKG, a fully automated continuous deployment pipeline for packaging of the CUDA SDK for the plethora of supported distributions, platforms and installation formats. My time-tested layered architecture design has freed up resources, contributing to the reduction of the development cycle from yearly to monthly product releases via reproducible package builds.
- Built Shiplt, an in-house SaaS (Software as a Service) full-stack webUI for managing product releases using a combination NodeJS and Perl back-end. Turnkey ease of use and modern responsive aesthetics provide a reliable data-driven interface for management populated by dynamic widget-based JSON schema. Drop-in support allows other teams to re-use infrastructure.
- Deployed a transparent squid proxy to rewrite public URLs for seamless cross-platform internal QA testing with one-line. Mechanism has saved time and provided assurance that network installers are bit-identical during testing and for public release.
- Maintain CUDA installer packages for Fedora, RHEL/CentOS, SUSE, Ubuntu, Linux4Tegra (L4T), Windows and MacOS. Strong expertise with `rpmbuild` and `.SPEC` files, `debuild` and control/rules files as well as the intricacies of robocopy.
- Documented detailed end-to-end pipeline process from source code check-in to release candidate using visuals and diagrams. Know-how to present technical specifications to a varied audience by keeping it light and to the point.
- Cross-team maintainer for the NVIDIA Deep Learning repository, handling the logistics of interlaced product releases.
- Volunteer lab assistant at GTC (GPU Technology Conference) providing support for topics such as image recognition, machine learning robotics and deep learning using CUDA.

Lead Maintainer of Community Project

downloads 20,000

Sep 2013 – Nov 2016

apacman – <https://github.com/oshazard/apacman>

- Took over reins of popular BASH-based, package manager for ArchLinux User Repository (AUR)
- Created a configuration file, many new features, and command-line (CLI) flags
- Added Bats unit tests and wrote manpage docs

Founder and Project Manager

downloads 100,000

Feb 2013 – Feb 2015

JustBrowsing Linux – <http://justbrowsing.info>

- Developed a ChromeOS-like kiosk Linux LiveCD distribution for web browsing
- Custom all-in-one settings control panel with persistence baked into config file
- Modified lock screen with webcam-based intrusion detection
- Wrote calculator, timers webapps and pyGTK keyboard applet

TECHNICAL SKILLS

15+ years of GNU/Linux experience

- Source packaging, Makefiles, porting and maintenance

Command-line and scripting proficiency

- awk/grep/sed, busybox, chroot, nano, ssh, apt-get, dnf/yum

Writing Documentation

- manpages, draw.io, UML, Javadoc, LaTeX, markdown, wiki

Development Tools

- Android Studio, Bats, Eclipse, git, gcc/g++, p4, Scratchbox

Programming Languages

- BASH, Perl, JavaScript, Python, Java, R, C++, C, Racket

Full-stack Web: Back-end and Front-end

- NodeJS, Socket.io, CSS/HTML, Bootstrap, jQuery, XML

Database and Graphics

- MySQL, Redis, SQLite, JSON, YAML, GIMP, ImageMagick

Containers and Deployment

- docker, nspawn, qemu, virtualbox, Cloud Foundry, Heroku

PROJECTS

GuessWhat – Core Developer

commits 84

Spring 2016

- Online NodeJS real-time multiplayer Pictionary game
- Wrote socket.io IM chat with jQuery & Bootstrap theme
- Interfaced JSON API to fetch words, stored in Redis DB
<http://guess-what.cfapps.io>

TimeMe – Lead Developer

commits 128

Spring 2012

- Task tracking application written in Java SWT
- Developed with Eclipse IDE, git, SRS and UML diagrams
- Data saved to TSV text-file for import into Excel or charts
<https://mittman.github.io/timeme/TimeMe.jar>

pyCheckmate – Developer commits 27 Fall 2015
· Python chess end-game AI, 5-ply minimax α - β pruning
· Wrote user interaction and QA test prep for tournament
<https://mittman.github.io/pycheckmate>

PrinterPi – Project Manager freelance Q3 2012
· Fulfilled client request for iPhone printing to USB printer
· Raspberry Pi as CUPS bridge and hostapd WiFi hotspot
· QEMU user mode to run x86 binary drivers on ARM SoC

project254 – Lead Developer commits 20 Spring 2015
· C++ reverse-engineered log parser
· Wrote human-readable stats from “blackbox” log dump
· Handled challenge of reprimanding plagiarizing teammate

webGPS – Developer just for fun Mid 2011
· Parse GPS coordinates from Palm webOS phone via USB
· Client-server model with PHP shim to interface with gpsd
· Mapped wireless Access Points combined with kismet logs

EDUCATION

Bachelor of Science in Computer Science
· California State University, Fullerton

Graduated May 2016

COURSEWORK

· Data Structures · Software Engineering · Open Source Software · Algorithms · Network Security · Web App Design

LEADERSHIP & PRESENTATIONS

Linux User Group – Founder, President 2014 – 2016
· Organized events and workshops for CSUF students
<https://linuxcsuf.github.io>

Why Linux? Cool Linux Tricks & CLI-Fu 2015
· Presented workshop for over 40 students and Professors
<https://linuxcsuf.github.io/files/why-linux-slides.pdf>

CERTIFICATIONS & REPUTATION

Jetson Robotics Lab 2018
· Participated as a TA for CUDA robotics lab at GTC

Accelerated Computing with CUDA C/C++ 2017
· Completed fundamentals course covering DIGITS

Applied CS with Android by Google 2016
· Certified in 5-day hands-on technical workshop

StackOverflow reputation 2,400 pts superuser top 7% 2013
· <https://superuser.com/users/243553>

Certificate of Achievement in CIS 2013

Certificate of Specialization in C++ 2013