

# Michael Pobega

Linux Systems Engineer

## Contact

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(917) 436 - 0950

## About Me

Passionate about desktop Linux, I'm interested in the future of containerized workflows via Toolbox and Flatpak.

Other interests include fighting games, wine and bonfires.

## Skills

Linux system admin  
Programming  
Kernel debugging  
Application debugging  
Automation

## Languages

Python  
Rust  
Perl  
Javascript  
Bash  
C/C++

## Systems

ChromiumOS  
Gentoo  
Fedora/Silverblue  
Debian  
RedHat  
FreeBSD

## Tools

Ansible, Nagios, Flatpak,  
Toolbox, Docker/Podman,  
nmap, Git, gdb, MongoDB,  
Virsh, Qemu, repo, Jenkins,  
Glade (GTK)

## Online

pobega.github.io  
github.com/pobega  
linkedin.com/in/pobega  
serverfault.com/pobega

## Work Experience

### Neverware

#### SOFTWARE DEVELOPER

NEW YORK, NY  
SEPTEMBER 2016~PRESENT

- Developer on Neverware's fork of ChromiumOS "CloudReady"
  - Primarily focused on hardware compatibility and regression fixes
- Debugs and resolves hardware compatibility issues in CloudReady
  - Collaborates with Product and Sales to resolve customer issues
  - Manages driver compatibility and patches hardware quirks in the Linux kernel
- Merges upstream code back into Neverware's forks and resolves conflicts and build issues
- Maintains a Python tool to automate the creation of deployable CloudReady installer images
  - Saves Neverware's support team 2 hours per customer request
- Involved in company efforts to push relevant changes upstream
  - Upstreamed patches include Linux, Systemd, and HWDB

### Neverware

#### SITE RELIABILITY ENGINEER

NEW YORK, NY  
SEPTEMBER 2014~SEPTEMBER 2016

- Administrator for Neverware's local Windows 7 Hypervisor solution "PCReady"
  - Managed roughly 300 PCReady servers across 120 schools
- Collaborated with the Engineering team to find and fix core product issues
- Engineered software in Python for monitoring and automation of PCReady tasks
  - Truancyofficer monitored server health and provided update emails
  - Hallmonitor alerted when servers were offline
- Handled customer support interactions for PCReady via phone and e-mail

### SUNYIT CS/ITS Departments

#### LINUX SYSTEM ADMINISTRATOR

UTICA, NY  
2010~2012, 2013~2014

- Responsible for the Gentoo Linux lab, as well as other misc. Linux labs on campus
- Implemented multicast ISO burning solution in Bash (wodimcast)
- Migrated services from legacy Unix hardware to a modern virtualized environment
- Reimplemented legacy mailing list software in Perl and integrate with existing LDAP
- Introduced configuration management through Ansible as a tool for rapid redeployment
- Setup Nagios server monitoring for the school's production network

## Education

### SUNY Institute of Technology

#### BSC COMPUTER SCIENCE

UTICA, NY  
CLASS OF MAY 2014

- Created an emulator for a fictional CPU architecture
- Wrote and booted a simplistic proof-of-concept x86 bootloader

## Personal Projects

### Mullvad Indicator

#### GNOME3 SHELL EXTENSION

2020  
GNOME JAVASCRIPT

- Monitor and control connectivity to the Mullvad.net VPN service

### com.fightcade.Fightcade

#### FIGHTCADE APPLICATION FLATPAK

2020  
YAML/SHELL

- Sandboxes a proprietary application for easy distribution on Linux and CloudReady
- Bundles custom 32-bit Wine build for running Windows emulators on Linux