Lillian Lemmer

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# Experience

## Thinkful, Mentor, Aug 2015-Present

Freelance *Programming in Python* course mentor. Remote one-on-one teaching sessions.

* Independent and self-sufficient; created own curriculum atop of the generic Python course in order to tailor students’ learning experience to their goals.
* Warm, friendly demeanor; known for being a sweetheart; childish enthusiasm for the joys of learning, teaching, and sharing software engineering.
* Curriculum teaches Flask, SQLAlchemy, and friends (Jinja, etc.).
* Highly available; wonderful track record of communication.

## Group Medical Supply, Software Engineer, *Aug. 2012-Feb. 2015*

Full time software engineer. Lead developer for all software projects including E-commerce and programming retail automation. Partially remote.

* Created inventory and retail management software in Python, which standardized data from OpenCart , Amazon , and eBay to a centralized database.
* Developed an easy-to-use web interface for my inventory and retail management software with Python and Flask.
* Developed software which updated shipping information on respective ecommerce sites; items would be updated as *fulfilled* through bar-code scanning when sent for delivery.
* Created rule-based retail pricing automation based on competitor report metrics.
* Programmatically: maintained inventory information, assured data integrity, generated sales and inventory reports.
* Created company retail websites. Customized OpenCart installation, e.g., multi-store shared sessions, backend inventory tools.
* Maintained systems: full stack developer and DevOps administrator, maintained and deployed Debian, CentOS, FreeBSD servers.

## Academic Arts, IT Manager, *2008-2012*

Full time IT project manager and website developer.

* Developed school’s website using Wordpress, maintained website server on a Linux platform
* Built scripts in Python to automate network and server administration tasks.
* Provided clear documentation with a wiki for my software and the network
* Trained replacement staff before leaving project
* Worked with school board to address goals in terms of progress, implementation, and requirements

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# Projects

## Hypatia: Began October 2014

<https://github.com/lillian-lemmer/hypatia>

* 2D action adventure game engine, written in Python
* 10,000 downloads a month from PyPi alone
* Supports FreeBSD, Linux, Windows, and Mac
* Usable by non-programmers, but also boasts clean code and superb docstrings
* Thorough wiki, large userbase and web presence

## Sakura CMS: Began November 2013

<https://github.com/lillian-lemmer/sakura-cms>

* Static site generator, written in Python
* Plugin system

## Modconf: Began March 2015

<https://github.com/lillian-lemmer/modconf>

* Command line modem configuration generator, written in Python
* Comprehensive usage documentation

## Formhandler

<https://github.com/lillian-lemmer/formhandler>

* Automate development of web interfaces for Python functions

# Technology Summary

**Languages/Programming:** Python, CSS, JavaScript, HTML (W3C-compliant!), XML, Lua, PHP, BASH

**Platforms:** FreeBSD, Linux (Fedora, CentOS, Debian, Ubuntu), Windows & Windows Server

**Databases:** PostgreSQL, SQLite, MySQL

**Tools & Systems:** git, nginx, ezjail-admin, vim, sshd, Apache, php-fpm, GIMP, uWSGI, VirtualBox, bhyve, Wordpress

**Libraries & APIs:** pygame, Flask + Jinja, Amazon MWS, lxml, BeautifulSoup, requests