



# TODD M. STALLWORTH

## CONTACT

 (360) 846 - 8504

 [Email](#)

 Renton, Wa

 [LinkedIn](#)

 [Portfolio](#)

## SKILLS

Python - Django, Flask,  
Pandas, NumPy, Pytest,  
Selenium

C/C++ - SFML

JavaScript - Express.js,  
Angular.js, Node.js,  
Vue.js, NPM

HTML & CSS

Jupyter Notebooks

Ansible Playbook &  
Bash Scripting

Database - SQL,  
MongoDB,  
PostgreSQL,  
SqlAlchemy

Nginx & uWSGI  
Server

LXD & Docker

Computer Architecture,  
Data Structures &  
Algorithms

## EDUCATION

### CERTIFICATION

Algorithms, Data  
Structures, System  
Design

AlgoExpert.io  
March 2023

### CERTIFICATION

Full Stack Developer  
Coding Dojo  
2018-2019

### ASSOCIATES

General Studies  
Big Bend Community  
College  
2010-2012

## EXPERIENCE

Software Developer | ParthenonSoftware Group | Vancouver | March 2023 - Current  
Developer on the Lifebalance Team; I enhanced front-end and back-end systems, leading to improved performance and reduced costs. Developed custom solutions and automated deployments, increasing user engagement and operational efficiency.

- Improved database call efficiency by 25% by implementing SQLAlchemy ORM and optimized data retrieval and storage processes with Elasticsearch.
- Scraped data from clients using Selenium, formatted it with Beautiful Soup, and successfully integrated records into a PostgreSQL database, reducing data processing time by 90%..
- Developed an in-house chatbot for tracking user activity and managing work hours, integrating Ollama AI to enhance interactivity and productivity. Implemented a reminder feature that improved compliance with time-tracking.
- Configured an LXC container with Nginx, Django and PostgreSQL; successfully launching a learning platform with high performance, scalability, and secure data management.
- Streamlined course and class management by implementing a user-friendly interface in Django Admin, resulting in a 50% reduction in data entry time.
- Automated deployment workflows with Ansible scripts and uWSGI Server, reducing deployment times by 60% and minimizing manual errors.

Contract Scripting | Contractor | Renton | June 2020 - Current

Designed and executed scripts on a contractual basis servicing all clients. Supported data analysis, optimized database queries, and reporting tools.

- Assisted in optimizing SQL queries, boosting database query performance by 15%.
- Collaborated on HTML/CSS improvements for internal reporting tools, enhancing user experience and achieving a 25% increase in user satisfaction ratings.
- Utilized Bokeh library for data visualization techniques to translate intricate client data into impactful visual representations.
- Generated scripts to parse and extract information from PDF documents, facilitating seamless exportation into Excel for data analysis.

Software Engineer | Certifit | Renton | December 2021 - November 2022

Designed, deployed and managed a Continuous Integration system.

- Developed, designed, and tested high-quality software features for the company's web-based application using Python, Django, and PostgreSQL.
- Applied a comprehensive test suite using Pytest and Selenium increasing test coverage and reducing bugs by 50%.
- Created unit integration tests with Pytest, resulting in automatic checks on software system faults and code quality, which reduced the number of bugs by 25%.

Front End Developer | State Construction | Renton | December 2019 - December 2021

Worked on construction sites helping in the office with booking and IT development.

- Built an application with Python Flask microservices architecture that recorded user input and experiment participant responses.

Vocational Student | Coding Dojo | Bellevue | September 2018 - December 2019

Completed assignments while assisting during code reviews and algorithm practice.

- Created CRUD (Create, Read, Update and Delete) web apps in Python (Django, Flask), Java (Spring Boot) and JavaScript (MongoDB, Express, Angular, Node)

## PROJECTS

FINGER COUNTER [\[LINK\]](#)

Tech Stack: Python, JupyterLabs, OpenCV, Scikit-Learn

- Utilized OpenCV as a proof of concept, captured a moving image of the user's hand(Exposure Correction) distinguished between the fist and the fingers(Segmentation), having an active window to display the amount of fingers held up(Segmentation) .