



# TODD M. STALLWORTH

## CONTACT

 (360) 846 - 8504

 [Email](#)

 Renton, Wa

 [Linkedin](#)

 [Portfolio](#)

## SKILLS

Python - Django,  
Flask, Pandas,  
NumPy, Pytest

C/C++ - SFML

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

HTML & CSS

Jupyter Notebooks

Docker

Database - SQL,  
MongoDB,  
PostgreSQL

Computer  
Architecture, Data  
Structures &  
Algorithms

Git/Github

Windows and Linux

## EDUCATION

### CERTIFICATION

Algorithms, Data  
Structures, System  
Design

AlgoExpert.io  
March 2023

### CERTIFICATION

Full Stack Developer  
Coding Dojo  
2018-2019

### ASSOCIATES DEGREE

General Studies  
Big Bend Community  
College  
2010-2012

## EXPERIENCE

Contract Scripting | Contractor | Renton | June 2020 - Current

Designed and executed scripts on a contractual basis servicing all clients.

- Utilized Bokeh library for data visualization techniques to translate intricate client data into impactful visual representations.
- Built an API using Django that successfully transcribed, translated, and analyzed 50+ audio files per day.
- Generated scripts to parse and extract information from PDF documents, facilitating seamless exportation into Excel for data analysis.

Private Tutor | Contractor | Renton | June 2020 - Current

Tutored students in several categories helping with homework and assignments.

- Organized weekly recitations that covered complex topics in algorithms and web development, contributing to a 30% increase in student performance.
- Mentored 3 junior software developers, resulting in a 40% improvement in their programming skills and the successful completion of 3 major projects.

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, arising in a 30% increase in test coverage and a 50% reduction in bugs.

Front End Developer | State Construction | Renton | December 2019 - December 2020

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, producing a 30% increase in data accuracy and a 20% decrease in response time.
- Created custom clean markup with HTML5 and CSS3 flexbox grids, ensuing a 15% increase in user engagement.

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

Completed assignments while assisting during code reviews and algorithm practice.

- Converted a Desktop Application into a Web based Application using HTML5, CSS and JavaScript to implement the front-end and Java's Spring Framework to implement the backend.
- Learned HTML5, CSS, JavaScript, Python, Java and MEAN Stack
- Engineered CRUD (Create, Read, Update and Delete) web apps in Python (Django, Flask), Java (Spring Boot) and JavaScript (MongoDB, Express, Angular, Node)

## PROJECTS

TITANIC SURVIVORS [\[LINK\]](#)

Tech Stack: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Machine Learning

- Implemented basic deep learning theory (Convolutional Neural Network) by feeding A.I. a training set (Feature Learning) followed by a test set (Classification).

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).

STUDY GUIDE [\[LINK\]](#)

Tech Stack: HTML, CSS JavaScript, Pug.js, Express.js, body-parser, cookie-parser

- Crafted Full Stack application using mongo.db, express.js angular and node.js