


# 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