

# TODDNEAL M. STALLWORTH

## SOFTWARE ENGINEER

### CONTACT



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[Email](#)



Renton (Washington)



[LinkedIn](#)



[Portfolio](#)

### SKILLS

Python - Django, Flask,  
Pandas, NumPy

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

Java - Spring Boot

C/C++

HTML & CSS

Database - SQL,  
MongoDB

Docker

Shell Scripting

CI/CD Pipeline Automation

AWS & Heroku

Computer Architecture,  
Data Structures &  
Algorithms

Git/Github

Windows and Linux

### EDUCATION

#### CERTIFICATION

Big Data with Apache  
Spark and PySpark  
Udemy  
June 2022

#### CERTIFICATION

Computer Vision and  
Deep Learning  
Udemy/Jose Portillo  
June 2020

#### CERTIFICATION

Automated Software  
Testing w/Python  
Udemy  
March 2020

#### CERTIFICATION

Full Stack Developer  
Coding Dojo  
2018-2019

#### ASSOCIATES DEGREE

General Studies  
Big Bend Community  
College  
2010-2012

### EXPERIENCE

#### Backend Software Developer

*Certifit | Renton | December 2021-Current*

Design, deploy and manage Continuous Integration system.

- Administer continuous integrations (CI) delivery and automation tools using Jenkins.
- Participated in agile development environment, morning scrums and weekly sprints
- As a proof of concept, automated multiple test cases using the selenium library and developed Libraries. Utilized the Page Object Pattern when developing test cases
- Wrote detailed documentation which explains the use of the developed libraries, the selenium libraries and Page Object Pattern to automate test cases
- Led five learning sessions to train the QA team about the use of the Page Object Pattern and the Selenium Library to automate test cases for the applications they support.
- Attended weekly learning sessions on tools that help in facilitating DevOps practices such as Git, Jira, Maven, Bamboo, Docker and Ansible

#### Software Developer Tutor

*Contractor | Renton | June 2020 - December 2021*

Tutored students in several categories helping with homework and assignments.

- Using Django I developed an API that can transcribe, translate and analyze audio files.
- Transcribed 4000 audio dataset using commercial transcription API's (Google, Azure, Watson) to compare the transcription accuracy amongst them and other open source transcriptions models such as DeepSpeech
- In the process of developing a model capable of transcribing localized languages used in rural areas which are not supported by commercial transcription API's

#### Devops

*State Construction | Renton | December 2019 - December 2020*

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

- Build application with Python Flask microservices architecture that efficiently records user input and experiment participant responses
- Develop custom clean markup with HTML5 and CSS3 flexbox grids
- Create unit integration tests with Pytest, resulting in automatic checks on software system faults and code quality
- Wrote scripts to automate department efficiency and reduce strain of repeatable tasks.

#### Vocational Student

*Coding Dojo | Bellevue | September 2018 - December 2019*

Completed assignments while assisting during code reviews and algorithm practice.

- Participated in morning scrums and bi-weekly sprints
- 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
- Peer Programming Group tasks to design a project using Git to collaborate.
- Created 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*

- Machine Learning model used to predict chances of survival on the Titanic Ship.
- Implemented basic deep learning theory (Convolutional Neural Network) by feeding A.I. a training set (Feature Learning) followed by a test set (Classification).

#### QUOTES WALL [\[LINK\]](#)

*Tech Stack: Django, HTML, CSS PostgreSQL, Pandas, DataReader, Bokeh*

- Django app created to capture, view and edit users' favorites quotes.
- User profile customization, registration and password authentication. Data entities are modeled with Django ORM deployed on AWS.

#### 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*

- App created as a study guide; Asks users randomized JavaScript questions.
- Developed both the back end and the front end using mongo.db express.js angular and node.js