

TODD M. STALLWORTH

SOFTWARE ENGINEER

CONTACT



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[Email](#)



Renton (Washington)



[LinkedIn](#)



[Portfolio Website](#)

SKILLS

Python - Django, Flask, Pandas, NumPy, Pytest

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

Java - Spring Boot, Jenkins

C/C++

HTML & CSS

Database - SQL, MongoDB, PostgreSQL

Docker

Shell Scripting w/Bash

CI/CD Pipeline Automation

AWS & Heroku

Computer Architecture, Data Structures & Algorithms

Git/Github

Windows and Linux

EDUCATION

CERTIFICATION

AWS Training Math for Machine Learning
Amazon Web Services
March 2023

CERTIFICATION

Algorithms, Data Structures, System Design
AlgoExpert.io
March 2023

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

Software Developer Engineer Test

Certifit | Renton | December 2021-November 2022

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 the best practices of Test Driven Development (TDD) and tools such as Git, Pytest, Django, Docker.

Tutor / Contract Scripting

Contractor | Renton | June 2020 - Current

Tutored students in several categories helping with homework and assignments.

- Helped tutor students/peers in algebra, calculus and statistics.
- Held weekly recitations covering concepts involving Python, algorithms and Web Development.
- Using Django I developed an API that can transcribe, translate and analyze audio files.
- Gained familiarity with embedded devices by creating a home automation system.
- Demonstrated ability to mentor other software developers to maintain architectural vision and software quality.

Front End Software Developer

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
- 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