

Tyler Suard

tylersuard@protonmail.com – (213) 610-8634 – Greater San Francisco Area – www.tylersuard.com

CERTIFICATIONS: Microsoft Professional Program (MPP) in Artificial Intelligence

Linkedin Skills Test, Machine Learning: top 5% of 98,000 test-takers

EXPERIENCE

APPLE, INC. via TEKSYSTEMS

Sept 2022 – April 2023

Artificial Intelligence Engineer ~ Computer Vision

San Francisco, CA

- Experimental, cutting-edge Computer Vision research using Sagemaker, Tensorflow, and PyTorch
- Automating transformation, storage, and loading of massive sensor and image datasets for ML workflows

FREELANCE

Feb 2022 – Present

Artificial Intelligence Engineer ~ NLP and Computer Vision

San Francisco, CA

- NLP and automation of social media using state-of-the art AI programs like GPT-3 and Meta's OPT.
- Creating artistic images using AI and submitting them to art galleries, expositions, and contests. 3 entries accepted.

FACEBOOK via TEKSYSTEMS

Nov 2021 – Feb 2022

Software Engineer

San Francisco, CA

- Setup of software and hardware testing environments using Docker, Jumphost, Buck, Cardinal, and Mercurial.
- Created source control tutorial video with 2.2k views, now a permanent part of Facebook's onboarding process.

TC ENERGY via AIM CONSULTING

Aug 2021 – Nov 2021

Artificial Intelligence Engineer

San Francisco, CA

- Feature, data, and model engineering, leading to increased accuracy in predictions for time-series data in order to send more gas to those who needed it.
- Transfer of machine learning algorithms from one pipeline to another, involving data transformation and feature engineering using Pandas and Scikit-Learn on AWS Sagemaker, S3, CodeCommit, and Aurora / Redshift in order to optimize and utilize large data sets that were constantly changing on a weekly basis.

IHDN SOFTWARE DEVELOPMENT

Jan 2020 – Present

Software Development Engineer

San Francisco, CA

- Developed an OCR scanner and parser for automation of document scanning and entry into a database, using Computer Vision API, leading to an increase in efficiency by decreasing manual data entry.
- Contributed code to TensorFlow, Pytorch, and Microsoft's Arctic Code Vault's Open Source repositories through bug fixes and other change requests to improve functionality and performance.

COLUMBIAD SPACE LAUNCH SYSTEMS

Oct 2019 – Jan 2020

Software Engineer

San Francisco, CA

- Utilized open-source satellite data for developing machine learning models to predict satellite location to prevent collision and interference. Used Python to create an automated data pipeline ETL process in order to train a long short-term memory (LSTM) deep learning neural network which would lead to an increase in predictive accuracy from already existing forecasts.

ALATION

July 2019 – Sept 2019

Software Engineer

Redwood City, CA

- Contributed to code now in use by Fortune 500 clients (Pepsico, Boeing, U.S. Dept of Homeland Security) and worked through solutions with data pipelines. Assisted clients with data continuity issues, helping to resolve changes and restore service with two week downtime.
- Developed integrated functional tests to create more accurate and complete reports along with automated integration tests to ensure data integrity and increase functionality awareness in a production environment.

ARRGH MANUFACTURING INC

Nov 2018 – Aug 2019

Software Engineer

San Francisco, CA

- Developed Python code for smoke and hydrogen gas detection using Internet of Things (IoT) sensors for use in sheds at the base of cell phone towers to prevent fires. Used Micropython and Message Queuing Telemetry Transport (MQTT) in order to create messaging services to inform and track changes based on devices.

SKILLS AND OTHER INFORMATION

- AWS EC2, ECR, Sagemaker, S3, CodePipeline, AWS CLI, Azure, Python, database management, HTML5, CSS, Wordpress, TensorFlow, PyTorch, Pandas, Numpy, SQL, LangChain, Fargate, Django, REST API, CUDA, GPU
- Experience with artificial intelligence, computer vision. Natural language processing, robotics, databases, OpenAI, Databricks, Chat-GPT, ESP-32, Microcontrollers, MQTT, IOT, Dall-E2, Stable Diffusion, Jukebox, Embedded Systems, Agile, MLOps, Deep Learning, FastAPI, Photoshop, Apache Spark, ML Infrastructure, ChatGPT
- Familiar with linear, logistic regression, k-means clustering, data structures and algorithms, support vector machines, decision trees, random forests, StyleGAN, Custom trained object detection, Synthetic Data

PROJECTS, LEADERSHIP, AND CO-CURRICULAR ACTIVITIES

- Kaggle Competition: Utilized Huggingface, Fast.ai to classify more than 100,000 documents from database. Used text processing, stemming, text normalization, deep learning, tokenization, and other NLP tasks.
- SF Python Meetup Group: Happiness Engineer (Leadership Volunteer and Speaker)
- Instructor at Magnimind Academy: Python for Data Science. Member: Mensa America.

EDUCATION

WESTMONT COLLEGE

Bachelor of Arts, Economics and Business, Cum Laude Honors

Santa Barbara, CA

Ancillary Skills: Licensed Real Estate Salesperson, 3D Printing, Bookkeeping, Music & Audio Production

PROJECTS

- **SMART-BREAD:**

The world's first IOT-enabled Wifi bread. Monitors bread wirelessly from anywhere in the world.

<https://youtu.be/F9EQKo7VjsM>



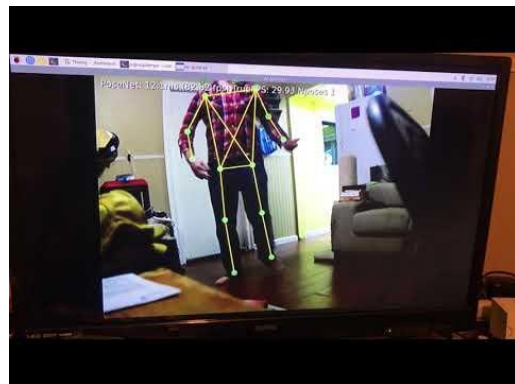
- **A.I. Art (www.twitter.com/tylersuard):**

Used SOTA AI art generation algorithms to create works from a text prompt.



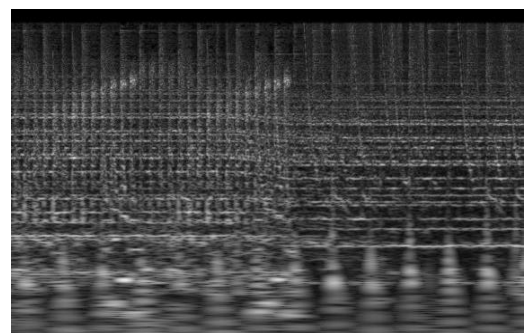
- **World's First A.I. Air Guitar:**

Uses computer vision and pose estimation to create musical sound from guitar gestures. Google Coral TPU SBC edge hardware, Tensorflow.



- **MP3-GAN:**

Converted 40,000 10-second music clips into images, trained custom Generative Adversarial Network (GAN), then converted the generated images back into audio again, creating audio files. (Tensorflow, Deep Learning, Neural Networks, and Python)



FIVERR CLIENT REVIEWS



smartshaker ★ 5

Norway

Absolutely blown away by how knowledgeable Tyler was in all of the different and specific areas I had questions about, in the same time he was able to make these topics supersimple to understand. Overall an excellent teacher and very easy to work with.



ctalley1 ★ 5

United States

Tyler was extremely qualified but had the rare ability to translate very complicated information to a lay person. Very impressed!



crodgers99 ★ 5

United Kingdom

Tyler is insanely knowledgeable and asks the right questions to solve problems. Really enjoyed working with him, and will be using him again.



morganfisher492 ★ 5

United States

Tyler is very knowledgeable, and is a master of explaining complicated concepts in a simple way. I would definitely recommend him!



adambinabbas ★ 5

Saudi Arabia

This seller is fantastic. He was available to tutor me on such short notice and took the time to understand my problem. Definitely recommended.



travin69 ★ 5

United States

Tyler continues to provide excellent results. He is my go to AI/ML expert.



rtobier ★ 5

United States

Tyler's attention to detail and his desire for perfection makes him a superstar!



fable187 ★ 5

United States

Tyler is very knowledgeable but very patient and professional and understanding. He gave the feedback and guidance I needed to get started on the right path. I'm looking forward to working more with him!



sunnychu ★ 5

Hong Kong

I was interested in Machine Learning for a long time. But my knowledge was always vague and scattered. After going through a session with seller, I am now finally able to connect all the dots. Seller is able to explain things really clearly, in a way that even a non-hardcore hobbyist programmer like myself can understand easily. Highly recommended.