

TIMOTHY JAN

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SKILLS

Python | JavaScript | TypeScript | C# | Node | Express | Angular | Ionic | React | ASP.Net Core Web API | Django | Django Rest Framework | Github | Bootstrap | Tensorflow | MongoDB | SQL Server | Full-stack

EXPERIENCE

Software Engineer

Jan 2023 – Present

HelloWorld Consulting LLC – Brea, CA – Remote

- Developed a workforce management solution for a time and attendance keeping company.
- Designed and implemented a robust minimal API using ASP.Net Core Web API, SQL Server, and Swagger for seamless data interaction.
- Revamped the frontend UI to align with latest UX/UI designs, utilizing Angular and Ionic frameworks.
- Configured MQTT broker/server with Mosquitto to facilitate communication with devices, enabling command transmission and event handling.
- Automated data pipelining through Python scripting, optimizing data flow efficiency.

Process Engineer

May 2019 - Nov 2020

Applied Medical - Rancho Santa Margarita

- Took on a pivotal role in a cross-functional collaboration effort involving R&D, Regulatory Analysis, Quality, and more, to successfully qualify a new harness for laparoscopic devices.
- Achieved a remarkable 90% reduction in costs while simultaneously enhancing RF energy efficiency, contributing significantly to the company's financial and operational success.

Electrical Engineer I

Jun 2018 - Jan 2019

Abbott – Sylmar, CA - Contract

- Diagnosed medical devices to discern/isolate firmware and software issues using data acquisition equipment.
- Employed data analysis techniques to create comprehensive Quality and R&D reports, contributing to the refinement and advancement of future product iterations.

PROJECTS

Books-MEAN

TypeScript, HTML/CSS

- Full-stack book review management system using Google Books API, MEAN stack (MongoDB, Express, Angular, Node), and Bootstrap.

Movie Recommender

Jupyter Notebook - Python

- Movie recommender using collaborative filtering and a variational autoencoder. Used Python - pandas, numpy, and tensorflow keras.

Music Controller

Python, JavaScript, HTML/CSS

- Collaborative music playing full stack web app integrated with the third-party Spotify API using Python (Django/Django Rest Framework) and JavaScript (React).

RELEVANT COURSEWORK

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|----------------------------|---------------------------------------|-------------------------------|
| • Advanced Algorithms | • Advanced Database Management | • Artificial Neural Networks |
| • Algorithm Engineering | • Artificial Intelligence | • Compilers and Languages |
| • Machine Learning | • Data Structure Concepts | • Mobile Dev Programming(iOS) |
| • Advanced Blockchain Tech | • Foundations of Software Engineering | • Operating System Concepts |

EDUCATION

M.S. Candidate in Computer Science

Aug 2020 – Dec 2022

California State University, Fullerton

B.S. in Electrical Engineering, Specialization in Electronic Circuit Design

Sep 2013 – Jun 2017

University of California, Irvine

Engineer in Training Certification – California License: EIT-164201

May 2018 - Present

Board of Professional Engineers, Land Surveyors & Geologists