

# TIMOTHY JAN

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## SKILLS

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Python | JavaScript | TypeScript | Node | Express | Angular | React | Django | Django Rest Framework | Github | Bootstrap 5 | Tensorflow | MongoDB | Frontend | Backend | Full-stack | English/Mandarin

## EXPERIENCE

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### Software Engineer

Jan 2023 – Present

#### HelloWorld Consulting LLC – Brea, CA – Remote

- Built a workforce management solution for a time keeping company.
- Revamped the frontend UI to use the latest frontend UX/UI designs using Angular and Ionic.
- Configured MQTT broker/server with Mosquitto to send commands and receive events/messages from devices and automated data pipelining with Python scripting.

### Process Engineer

May 2019 - Nov 2020

#### Applied Medical - Rancho Santa Margarita

- Qualified a new harness for laparoscopic devices through collaboration with multiple teams (R&D, Regulatory Analysis, and Quality etc.) that reduced costs by 90% and improved RF energy efficiency.
- Reduced costs, enhanced overall efficiency and customer ease of use by becoming the main point of contact between R&D teams, harness vendors and clinical team.

### Electrical Engineer I

Jun 2018 - Jan 2019

#### Abbott – Sylmar, CA - Contract

- Troubleshoot medical devices to identify and isolate firmware and software issues using in-house development tools and data acquisition/measurement devices such as oscilloscopes, DMMs, and AWGs etc.
- Analyzed data to generate Quality and R&D reports for future product improvement.

## PROJECTS

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### Books-MEAN

TypeScript, HTML/CSS

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

### Movie Reviewer-MERN

HTML/CSS/JavaScript

- Full-stack movie review/rating management system using the MERN stack (MongoDB, Express, React, and Node.js).

### 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).

### Compiler

C++

- Lexical and Syntax Analyzer components of a compiler for a C based language.

## 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

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### 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