

# TIMOTHY JAN

Software Engineer

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📍 Arcadia, CA

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## EDUCATION

**M.S. Computer Science**  
**California State University**  
**Fullerton**

📅 Aug 2020 - Dec 2022

**B.S. Electrical Engineering**  
Electronic Circuit Design  
**University of California Irvine**

📅 Sep 2013 - Jun 2017

## SKILLS

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

## Relevant Courses

- Advanced Algorithms
- Advanced Databases
- Artificial Neural Networks
- AI & Machine Learning
- Compilers and Languages
- Data Structure Concepts

## WORK EXPERIENCE:

### Software Engineer

### HelloWorld Consulting LLC

📅 Jan 2023 – current

📍 Brea, CA

- Developed a workforce management solution for a time and attendance keeping company.
- Revamped the frontend UI to ensure responsiveness across mobile and desktop platforms with Angular frameworks.
- Configured MQTT broker/server with Mosquitto to facilitate communication with devices.
- Automated data pipelining with Python scripting that resulted in data collection and analysis to be faster, scalable and have better exception handling.

### Process Engineer

### Applied Medical

📅 May 2019 - Nov 2020

📍 Rancho Santa Margarita, CA

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

### Electrical Engineer I

### Abbott

📅 Jun 2018 - Jan 2019 Contract

📍 Sylmar, CA

- Diagnosed medical device firmware and software issues using data acquisition equipment.
- Analyzed data to produce Quality and R&D reports, aiding in product improvement.

## PROJECTS:

### ScreenCrit: MEAN stack, Angular Material, TMDB API

- Movies/TV show reviews management app using the MEAN (MongoDB, Express, Angular, Node) stack and TMDB(The Movie Database.) API.
- Built a RESTful API with Express/ Node.js to manage data in MongoDB (Atlas and MongoDBCompass).
- Created a dynamic frontend with Angular 17 (Typescript) and Angular Material for a modern UI.

### Books-MEAN: MEAN stack, Bootstrap, Google Books API

- Full-stack book review management system using the MEAN stack, Google Books API, and MD Bootstrap 5.

### Movie Recommender: Jupyter Notebook – Python

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