

TIMOTHY JAN

Software Engineer

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📍 Arcadia, CA

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<https://timothyjan.github.io/>

EDUCATION

M.S. Computer Science
California State University
Fullerton

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

SKILLS

- Python
- JavaScript
- TypeScript
- C#
- SQL
- Node
- Express
- Angular
- React
- ASP.Net Core
- Azure
- MongoDB
- SQL Server
- Github
- Wordpress
- Bootstrap
- Full-Stack Development

Relevant Courses

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

WORK EXPERIENCE:

Software Engineer

Jantek Electronics, Inc.

📅 Jan 2023 – Present

📍 Temple City, CA

- Developed a responsive workforce management solution using Angular, optimizing UI for mobile and desktop.
- Created a Python-based MQTT subscriber application with Paho MQTT and tkinter, leveraging multi-threading for efficient real-time message processing and exporting data to Jantek time attendance software.
- Redesigned and integrated custom WordPress themes and plugins to enhance website functionality, SEO, performance, and user experience.
- Automated data pipelines with Python, improving scalability, speed, and exception handling.

Process Engineer

Applied Medical

📅 May 2019 - Nov 2020

📍 Rancho Santa Margarita, CA

- Led cross-functional collaboration between R&D, Regulatory, and Quality teams to qualify a new laparoscopic device harness.
- Achieved a 90% cost reduction while increasing RF energy efficiency, boosting operational performance.

Electrical Engineer I

Abbott

📅 Jun 2018 - Jan 2019 Contract

📍 Sylmar, CA

- Diagnosed firmware and software issues in medical devices using data acquisition tools.
- Analyzed data for Quality and R&D reports, driving product enhancements.

PROJECTS:

PplPro (ASP.Net Core, Angular, Bootstrap, Azure SQL)

- Developed a full-stack Employee Management System using ASP.NET Core, Angular, Bootstrap, and Azure SQL, implementing DTOs for data transfer, repository patterns for data access, and RESTful APIs for efficient employee, department, and role management, successfully deployed to Azure.

ToDoList (ASP.Net Core, Angular Material, Azure)

- Created a full-stack Todo List app with an ASP.Net Core Minimal API and a dynamic Angular Material frontend, successfully deployed to Azure.

ScreenCrit (MEAN stack, Angular Material, TMDB API)

- Built a movie/TV review app using the MEAN stack with a RESTful API, integrating MongoDB and the TMDB (The Movie Database) API for data management and Angular Material for UI.