

# Timothy Jan

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“Full Stack Engineer specializing in ASP.NET Core, Angular, and Python. Proven success in building scalable web applications, performance optimization, AI integration, and cross-platform development.”

## WORK EXPERIENCE

### Jantek Electronics, Inc.

Temple City, CA

#### Software Engineer

Jan 2023 – Present

- Engineered full-stack payroll management system using ASP.NET Core, Angular 16+, and SQL Server, improving user engagement by 50%.
- Developed RESTful APIs with comprehensive error handling and responsive Angular UI with Material Design.
- Implemented SQL Server constraints ensuring data integrity and protected record system with restricted editing capabilities.
- Boosted productivity by over 100% leveraging generative AI (ChatGPT & DeepSeek) for rapid prototyping and code optimization.
- Developed Python MQTT app for real-time data processing and optimized WordPress performance by 30% through SEO/UX enhancements.

### Applied Medical

Rancho Santa Margarita, CA

#### Process Engineer

May 2019 – Nov 2020

- Spearheaded collaboration across R&D, Regulatory, and Quality teams to qualify a new laparoscopic device harness to reduce harness costs by 90% and improve RF energy efficiency, enhancing operational performance and reliability.

### Abbott

Sylmar, CA

#### Failure Analysis Engineer II

Feb 2019 – May 2019

- Analyzed returned medical devices to identify root causes of failures and prepared reports that supported product reliability improvements.

#### Electrical Engineer I

Jun 2018 – Jan 2019

- Diagnosed and resolved firmware/software issues in medical devices and supported product improvements through data analysis.

## PROJECTS

### TaskTracker Visual Studio 2022 | ASP.Net Core | Angular | SQL Server | Ionic-Angular

- Engineered full-stack project/task management system with CRUD operations and mobile cross-platform access via Ionic-Angular.
- Developed RESTful APIs with comprehensive error handling and responsive Angular UI with Material Design.
- Implemented SQL Server constraints ensuring data integrity and optimized database operations with Entity Framework Core.

## SKILLS

**Frontend:** Angular 16+, TypeScript, RxJS, Angular Material, Reactive Forms

**Backend:** ASP.Net Core 6+, Entity Framework Core, SQL Server, RESTful APIs

**Databases:** SQL Server with constraints, indexes, and stored procedures

**Architecture:** Repository Pattern, Dependency Injection, Clean Architecture

**Validation:** Data annotations, Fluent Validation, custom business rules

## EDUCATION

California State University Fullerton

M.S. Computer Science 2020-2022

University of California Irvine

B.S. Electrical Engineering 2013-2017