

# Michael Herman

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## OBJECTIVE

Software Engineer with experience in full-stack web development, proficient in JavaScript, Python. Proven track record in managing project lifecycles and achieving high test coverage in previous roles. Seeking a challenging software developer position to leverage my technical skills and contribute to innovative solutions.

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, TypeScript, SQL, HTML, and CSS.

**Libraries/Frameworks:** React, React Testing Library, jQuery, Bootstrap, Jest, Jasmine, Node, Express, Django, Flask, SQLAlchemy

**Development Tools:** VSCode, Git, Github

**Cloud Services:** AWS S3 and EC2

## SOFTWARE ENGINEER EXPERIENCE

### Software Engineer Intern

Jun 2023 – Jul 2023

*Rithm School*

*San Francisco, CA*

- Rapidly acquired proficiency in Django within a three-day timeframe and became a key contributor to the development and enhancement of a sophisticated 40K LOC learning management system.
- Enforced coding standards using pattern matching techniques in Python, leading to a reduction in code review time and improved maintainability in the Django application.
- Migrated and modernized legacy code and designed SQL database models that enhanced user experience by enabling creation and completion of surveys within the learning management system, increasing user engagement and providing actionable feedback to instructors.
- Implemented model factories using 'factory\_boy' in a large-scale Python application, establishing a robust testing strategy that improved code reliability and maintained an exceptional 98% test coverage, significantly reducing debugging time.
- Authored detailed pull requests using Git for ongoing tasks in an Agile project with weekly sprints and daily standup in a team of 10 software engineers, ensuring seamless hand-offs.

## TECHNICAL PROJECTS

### YardHoppers - A Web App for Backyard Rentals

[Live Demo](#) | [Github](#)

React, Bootstrap, Node.js, Express, Axios, SQL, PostgreSQL, and Surge.

- Identified the need for user-submitted image uploads in YardHoppers' web app. Tasked with leading feature development, utilized AWS S3 and constructed a RESTful API back-end, resulting in an efficient handling of listing data and associated image URLs.
- Managed all aspects of the project lifecycle, encompassing selection of technologies, design of components and APIs, and drafting a complete list of features. This focused strategy guaranteed that all procedures and utilities perfectly corresponded with the intended results.
- Established a secure system for user authentication and authorization employing JSON Web Tokens (JWT), with tokens preserved in the local storage at the front-end, thereby guaranteeing data security and user confidentiality.

### Warbler - A Social Media Platform Inspired by Twitter

[Live Demo](#) | [Github](#)

Python, Flask, PostgreSQL, SQLAlchemy, Render

- Enhanced user engagement by introducing a message-liking feature to the dynamic social media platform, leveraging CSRF-protected AJAX requests and well-planned database queries to ensure a smooth user experience.
- Devised a refined user following/follower mechanism, capitalizing on the capabilities of a self-referential many-to-many join in SQLAlchemy, thus strengthening the fundamental functionality of the platform.
- Maintained quality standards by performing rigorous unit and integration tests on Jinja-based HTML templates and request status codes. Achieved 98% coverage.

## **Jobly** - Platform For Posting and Viewing Jobs

[Live Demo](#) | [Github](#)

React, Bootstrap, Node.js, Express, Axios, SQL, PostgreSQL, Render

- Designed a RESTful API delivering JSON, utilizing Node.js and Express for the backend, and collaborated with solid database models validated via JSON schemas, achieving 95% coverage.
- Crafted object-oriented database models to envelop operations and produce consistent, reliable SQL queries, promoting efficient management of the database.
- Boosted user authentication/authorization with JWTs on the job search and application board, protecting routes and regulating job application features based on the user's login status.

## ADDITIONAL WORK EXPERIENCE

### **Warehouse and Facilities Manager**

May 2022 - Mar 2023

*Rise Co-Packing*

Oakland, CA

- Conducted in-depth research to source cost-effective and high-quality third-party maintenance services for production and warehouse equipment and implemented novel maintenance standards and practices to enhance the durability and longevity of equipment.
- Designed and implemented a production process for new packaging machinery, decreasing efficiency loss and material waste by 40% and robotic output by 20%, leading to a 30% overall increase in production.
- Devised a streamlined communication system with robotics partners through Google Docs for seamless collaboration, leading to 50% reduction in recurring issues and malfunctions.

### **Manager**

Mar 2008 - May 2022

*Trader Joe's*

San Francisco, CA

- Spearheaded a team of 10+ in the produce section of a high-grossing store, managed \$150,000 of section inventory, leading to a reduction in opening/closing times by 20%, shrink reduction of 30%, and top produce sales in the region.
- Managed daily operations requiring problem-solving and attention to detail, skills transferable to debugging and maintaining code in a software development role.
- Directed teams of over 100 individuals across two high-performing stores in San Francisco, achieving weekly sales ranging from \$600K to \$1.2M.
- Led daily staff meetings (similar to scrum meetings) and conducting bi-annual performance reviews, which prepared me to work in an agile software development environment.

## EDUCATION

### **Rithm School**

2023

Full Stack Web Development Bootcamp

San Francisco, CA

### **San Francisco City College**

2021

A.S. Business Administration and Management

San Francisco, CA

## AWARDS

**Magna Cum Laude** – San Francisco City College

2021

**Certificate of Achievement**

2021

Awarded for completing classes related to the General Business major, beyond the required course load.

**Consecutive Biennial Productivity and Customer Service Awards**

2015 - 2016

Awarded for outstanding leadership, productivity, attention to detail, and recognition for driving sales and mitigating shrinkage in the produce section, achieving the #1 sales ranking for that section in the Northern California region.