

# Michael Frederickson

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## TECHNICAL SKILLS

**Languages** - Javascript, Python, SQL, PostgreSQL, HTML, CSS, Typescript

**Libraries** - React, React Hooks, React Testing Library, jQuery

**Frameworks / Tools** - Node, Express, Jest, Django, Flask, SQLAlchemy, unittest, VSCode, Git, Github, WForms, SSH, JSON Schema, Axios

## SOFTWARE ENGINEER EXPERIENCE

### Software Engineer Intern

*Rithm School*

Sep 2023 – Oct 2023

*Los Angeles, CA (Remote)*

- Incorporated additions and changes to Rithm's Student Information Systems code base and application, handled over 15 bug-fixes, new features, and tests across 3 weeks
- Developed a Python-based feature that interfaced with Slack's API to notify a Cohort's Slack channel when new course material is published; enhanced student interaction by 20%
- Engineered feature to flag user profile information as "Public" or "Private" using HTML and conditional logic within view function
- Solved issue with database to frontend time conversion that was causing approximately 20% of the admin panel to display incorrect datetimes
- Learned essentials of Django framework and Slack's API in under 2 days using official documentation in order to work on codebase

## TECHNICAL PROJECTS

### Company Detailing Web Application ("Jobly")

[Github](#)

- React frontend, Express backend, React Router for website navigation
- Backend database infrastructure complete with class methods for interacting with database
- Node middleware to handle authentication and authorization for admins, users, and non-users
- Implemented Express backend RESTful API for fetching companies, jobs, single company details

### Photo Sharing Application ("Pixly")

[Github](#)

- Created a web application for sharing and uploading images using React, React Router, and Python
- Frontend accepts image files, uploads to AWS cloud, sends link and select metadata to database using FormData object
- Homepage populated with all uploaded images using AWS cloud links from database
- Search functionality that uses controlled forms and useState hook to narrow down results

### Social Media Web Application ("Warbler")

[Github](#)

- Designed and wrote a relational database to handle users, followed-users, and likes
- Included authentication/authorization functionality in view functions to improve website security
- Included "Like" functionality using conditional logic in Jinja HTML and "many-to-many" data from DB
- Engineered an edit-profile feature, utilizes form action to update user info

## ADDITIONAL WORK EXPERIENCE

### Document Specialist

Dec 2019 – Dec 2022

*Purple*

*Alpine, UT*

- Designed and wrote documents including process guidelines and productivity tracking spreadsheets, improving tracking accuracy by ~15%
- Updated workflow processes to improve safety and efficiency, reducing workplace accidents and mistakes by ~20%
- Delivered feedback to engineering team to improve productivity software, simplifying productivity spreadsheets and reducing time required to track production by ~20%

### Office Manager

May 2015 – Oct 2018

*Carmax*

*Las Vegas, NV*

- Managed Business Office team of 20+ associates, mentored and trained over 15 employees
- Facilitated a streamlined car-purchasing workflow, reducing average purchase-time from 25 to 20 minutes
- Leveraged software to handle asset follow-up and retention; helping reconcile over 1000 vehicle records
- Managed the running of departments including the Service department; this allowed ~20% more availability in the service department for customers

## EDUCATION

### Rithm School

Graduated 2023

*San Francisco, CA (Remote)*

Full Stack Web Development Bootcamp

### Key Takeaways

React, Python, Flask, PostgreSQL, JavaScript, Django, Node, Express

AJAX / Axios

Database Design

Real-world Git and GitHub workflow

Teamwork / collaboration

APIs / REST philosophy and best practices

Testing, TDD