James Aidan Zimmermann | Software Engineer

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[LinkedIn](#) | [Github](#) | [Blog](#) | [Website](#)

SUMMARY

Determined full stack software engineer seeking an opportunity to contribute and develop my skills in a challenging environment. As an alumni of Yale University, I understand the drive toward perfection and the dedication required for success. My experiences as a musician and educator have ingrained within me the necessary skills for collaboration and teamwork, as well as organization and accountability.

Currently seeking opportunities in front-end, back-end, or full-stack web development.

TECHNICAL SKILLS

Python with Flask, SQL, SQLite, SQLAlchemy, JavaScript, React with Redux, Node.js, HTML, CSS, APIs, Git, Github, Render, Alembic

TECHNICAL PROJECTS

I <3 MTA - Capstone Project - [Github](#) | [Demo](#)
Manage MTA subway trips with Google Maps, create unique map of colors and past routes
- Provide state context through Redux and React's useContext hook
- Use Google Maps API as well as MTA API data to seed train directions and locations
- Enact RESTful framework with Flask SQLAlchemy to build API and routes
- Utilize many-to-many relationships between tables with multiple foreign keys and relationships
- Enacted full CRUD operations; utilized PostgreSQL and Alembic for database migrations
- Scraped the web for further subway station data using Beautiful Soup

WellPlayed - [Github](#) | [Demo](#)
Chronicle playground visits and suggest new playground adventures around Manhattan
- Encrypted sign-in and sign-off feature through bcrypt hasher
- Enact RESTful framework with Flask SQLAlchemy to build API and routes
- Validate data through formik and yup in the Front End/sqlalchemy.orm.validates in the Back End
- Persist a user's sign-in credentials through db.session and cookies
- Create and maintain database migrations using Alembic; built many-to-many relationships

DinerDash - [Github](#) | [Demo](#)
Command Line Interface game where you seat incoming customers, take their orders, and give them the check
- Multiple SQL tables with various relationships (one-to-many, many-to-many, etc.)
- Organizes and seeds data via alembic migrations and revisions
- Interface user input through organized python functions and classes
- Handle user input errors in a systematic manner for a seamless experience

EDUCATION

Flatiron School	New York, NY
Full Stack Web Development, JavaScript, React, Python, Flask, and SQL program	07/2023
Yale University	New Haven, CT
Master's Degree in Music	05/2020
University of Miami	Coral Gables, FL
Bachelor's Degree in Music	05/2016

WORK EXPERIENCE

Software Engineer	Remote
Self Employed Freelance Software Engineer	07/2023 - Current

- Design, build, deploy, and maintain websites for customers as needed
- Frameworks and Languages include CSS, Javascript, React.js, and HTML

Music Educator	Houston, TX
Private Music Lesson Instructor/Guest Clinician	06/2020 - 06/2023

- Provide lessons developing pedagogy and technique in the discipline of low brass instruments (tenor trombone, bass trombone, euphonium, tuba)
- Provide masterclass sessions focused on region band and solo/ensemble competitions
- Maintain a studio of over 50 full time students in the greater Houston area