

# ISMAIL N MANJLAI

(734) 330-8938

[inmanjlai.dev@gmail.com](mailto:inmanjlai.dev@gmail.com)

[PORTFOLIO](#)

[GITHUB](#)

[LINKEDIN](#)

## SKILLS

JavaScript, Python, SQL, PostgreSQL, MSSQL, HTML, CSS, React, Redux, Flask, Express, Node.js, SQLAlchemy, Sequelize

## EXPERIENCE

### Software Engineer

*Freelance*

Dec 2021 - Present

- Worked alongside a professor at University of Michigan to develop an online code editor to be used in University of Michigan's CS program, as well as other educational environments, that utilizes Skulpt, CodeMirror and PocketBase.
- Created static sites for multiple family-owned businesses, using a variety of web technologies.
- Assisted Grand Circus bootcamp graduates in creating full stack web applications using Angular, .NET and MSSQL.
- Currently working on a component library npm package that utilizes HTML web components.

### Software Test Engineer

*National Heritage Academies*

Jan 2022 - Present

- Executed database queries using SQL in MSSQL in multiple lower level environments such as CI and QA to validate test cases and ensure valid data representation with over 100,000 data points.
- Created automated tests using Cypress to offload repetitive work, resulting in stories moving through the pipeline faster.
- Handled validations of user stories in two different development environments in an Agile organized workspace in a SCRUM team to ensure smooth functionality before deploying changes to production.
- Collaborated with the team to groom and estimate user stories in Azure DevOps in order to reach each iteration's target velocity.

## PROJECTS

**CodeTracker** (HTML, CSS, JavaScript, CodeMirror, Skulpt, PocketBase)

[GitHub](#) | [Live](#)

*An online code-editor. Allows educators to track their student's work through multi-step rebuilding of their code.*

- Combined CodeMirror's text editor and Skulpt's Python-to-JavaScript translator to allow users to run Python code natively in the browser.
- Self hosted a PocketBase instance on a Linode server, and linked it to the website utilizing their provided JavaScript SDK.
- Implemented reactivity through DOM manipulation for user authentication, and other client side interactivity for a smoother user experience.
- Created intensive documentation regarding dependencies, reactivity scripts and component implementation to allow for easy collaboration with other developers.

**Flask Starter Application** (Python, Flask, HTML, Jinja2, SQLAlchemy, JavaScript, CSS)

[GitHub](#)

*A GitHub repository that allows a user to quickly spin up CRUD applications with minimum boilerplate*

- Created a server-side-rendering starter application that uses jinja2 to return dynamic and blazing fast pages.
- Designed SQLAlchemy models as templates for new users to refer to when creating their own CRUD features.
- Documented key features of Flask to help users get a better feel without having to dive deep into documentation, such as database linking, and ORM support.

**Worlish** (Python, Inquirer, Tabulate, PrettyTable)

[GitHub](#)

*A turn-based text RPG featuring a procedurally generated world*

- Created a text based RPG for the terminal using Python, that allows you to create a character, featuring class and race specific stats, items and skills.
- Developed a system to procedurally generate the world around you as you explore. As well as populating it with NPCs, enemies and items.
- Utilized Inquirer to make a visually pleasing user interface in the terminal, especially during combat with enemies.

## EDUCATION

**Software Development** - App Academy | Summer 2021

**Bachelors of Computer Science** - Eastern Michigan University | 2016 - present