







Michael Morgan

Software Engineer

A software engineer with a 5+ year background in biomedical engineering and consulting with demonstrated competence in finding solutions to complex problems. Understands and can communicate technical information to a variety of individuals, developed through experiences in diverse collaborations. Continuously looks to improve, as shown by continuous re-iteration of technology and optimization of projects on a team and in personal life.

Contact

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Portfolio-MM

Skills

>> Languages

Javascript / Typescript / Rust
Python / Ruby / HTML5 / CSS
SQL / Autot3

>> Frameworks

Node.js / Express / React
jQuery / Bootstrap / Django

>> Software

Git / GitHub / AWS / ZSh
PostgreSQL / Docker / MySQL
MongoDB / Linux / Postman

>> General

Computer Science
Technical Communication
Marketing / Manufacturing
Full Stack

Education

Software Engineering Immersive

General Assembly
October 2022 – February 2023

Biomedical Engineering, BS

Georgia Institute of Technology
August 2012 – May 2016
GPA: 4.0/4.0 / Minor: Biology

Projects

Progress / A Community-centric habit tracker

- >> Drafted and programmed a 5+ page web-design system for users to track and develop skills every day based upon continual completion of repeating habits.
- >> Assembled over 35 components in react to construct the front-end UI, which, when interacted with, made RESTful API calls on the backend MongoDB server in a reactive and pleasant manner.
- >> Incorporated JWT and AWS S3 cloud for user authorization and photo storage respectively.

Ration / A recipe and nutrition tracker built with Django


- >> Implemented Git version control and agile development methodologies to design and build a full stack web application using Python and Django. Utilized REST API calls to perform CRUD operations on a Postgres database, and implemented image storage on AWS S3.
- >> Devised functions to make REST API calls to perform CRUD operations on a Postgres database, and implemented image storage on AWS S3.
- >> Customized forms and data visualization capabilities using JQuery, ChartJS, and JavaScript to display daily meal nutrition information on a recipe website.
- >> Launched an intuitive and user-friendly recipe website for users to track nutrition and plan four daily meals, providing a solution for fitness enthusiasts.

PokeCatcher / A MERN-based online game

- >> Constructed a browser game utilizing JavaScript, by interfacing with public APIs and parsing JSON data to mimic traditional Pokemon battle mechanics.
- >> Leveraged MongoDB to store user and pokemon data, integrated with Node.JS, mongoose, and express for inter-player interactions.
- >> Created the full CRUD website application to pokemon training through battles and for tracking individual progression through saved levels, health, and move data using Google OAuth.


Work Experience

Emleorate / Co-Founder / Boston, MA

 3/19 - Present


- >> Invented the Bedderpan product, an innovative bedpan to reduce spillage from 70%.
- >> Researched the market and customer needs by interviewing 100s of nurses, caregivers, and patients, resulting in 200 design iterations, and the development of 12 different functional prototypes.
- >> Managed marketing efforts to expand advertising campaigns on platforms such as Google, Walmart, and Amazon, for a top 10 seller ranking in the bedpan category on Amazon and a >100% increase in annual revenue.
- >> Designed and developed a website with intuitive user interface and e-commerce capabilities, leading to the first official product sale.

Xelay Acumen / Management Consultant / San Mateo, CA

 1/19 - 9/19

- >> Consulted with 3 different clients, enacted outreach for a new client, and led a team and manuscript execution efforts for another major client.
- >> Launched and spearheaded initial medical education efforts for one new client by examining existing client challenge areas and the market landscape, and engendering a scientific platform on which to base future publications.

Zimmer-Biomet / Quality Engineer / Warsaw, IN

 1/17 - 7/18

- >> Collaborated with a team of quality engineers to implement a quality control system for 100s of products and multiple millions in revenue.
- >> Led development and direction for more complicated areas such as for molding and sutures.
- >> Managed communication, product sale, and engineering transfer of 5+ product lines to competing companies.