

MELISSA CROCKETT

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CERTIFICATIONS

Fullstack Software Engineering
CODECADEMY, MAY 2023

EDUCATION

Bachelor of Science *Psychology*
TEXAS A&M UNIVERSITY, MAY 2013

SKILLS

PROGRAMMING LANGUAGES

Javascript, Typescript, C#, SQL, HTML, CSS

SOFTWARE LIBRARIES & TOOLS

JAVASCRIPT / TYPESCRIPT React, Angular, Node/npm, Express, Express-Session, Redux, Passport, Lodash, Jest, Joi, Mongoose, pg, Next.js, Vite, Webpack, Mocha, Axios

C# ASP.NET, .NET, Entity Framework

SQL psql, pgAdmin, Sqlite

UI LIBRARIES Material UI, Chakra UI, Bootstrap

DATABASES PostgreSQL, MongoDB

COMPUTER PROGRAMS

Git, VS Code, Visual Studio, Postman, MS Office, Adobe Illustrator, Heroku CLI, dotnet CLI

GENERAL

Frontend development, UI design, SPAs, RESTful APIs, third-party API integration, Backend development, User Authentication and Authorization, OAuth2, Software Architecture, Server Sessions, Unit Testing, Integration Testing, TTD, Database Design, CI/CD, Strategic Planning, Project Management, Personnel Management, Public Speaking, Graphic Design, Technical Writing, Fundraising, Professional Networking, Email Campaigns, Marketing

LANGUAGES

English, German

PROJECTS

LANE ONE RUNNING | FULLSTACK E-COMMERCE APPLICATION

2023

Developed a PERN stack application for a fictionalized running store, leveraging expertise with Typescript and Vite. Used Chakra UI to implement elegant and intuitive user interface. Implemented both a username/password authentication strategy and Google Open ID for seamless login options. Built shopping cart functionality and integrated payment processing using Stripe API. Persisted state management of cart and user state with Redux and Redux Toolkit. Employed React-Router-Dom for SPA navigation and custom data loaders for product information. Designed and optimized a PostgreSQL database to store product information, user details, and orders. Utilized migrations to implement database structure and made necessary changes throughout development. Additionally, designed and built a RESTful Express server with session management, following MVC architecture for enhanced functionality.

DAILY HIT FOR REDDIT | SOCIAL MEDIA FULLSTACK APPLICATION

2023

Developed a MERN stack application utilizing the official Reddit API to create an immersive user experience. Designed and built an app that enables users to engage with their preferred subreddits, allowing them to upvote or downvote posts within a sleek and intuitive Material UI card-based interface. Implemented robust persisted state management using Redux and Redux Toolkit to ensure seamless user interactions. Established an Express server integrated with session cookies for secure authentication on the frontend, leveraging MongoDB for efficient token storage. Implemented Reddit OAuth in compliance with official Reddit OAuth standards and API rules, ensuring a secure and reliable user authentication process.

E-COMMERCE SERVER

2023

Developed a robust RESTful API and server for an e-commerce platform, utilizing Node.js and Express within the MVC architecture. Designed and implemented a PostgreSQL database, employing efficient database migrations. Developed custom Models to facilitate seamless interaction between Controllers and the database. Implemented secure user authentication and admin authorization using JSON Web Tokens (JWTs). Constructed data-validation middleware with Joi for enhanced data integrity. Achieved high code quality through comprehensive integration and unit tests, attaining an impressive 98% code coverage. Documented the API thoroughly using Swagger to improve project accessibility.

EXPERIENCE

ASSOCIATE DIRECTOR OF STRATEGY | THE NAVIGATORS | NEW YORK, NEW YORK

December 2020 – September 2022

- Collaborated on the strategic operations of a campus community where I mentored a diverse group of students.
- Pioneered strategic initiatives on the local and regional level of The Navigators organization while networking with campus departments and faculty.
- Successfully fundraised \$67,000 annually and maintained donor relationships through engaging communication.
- Provided input in leadership decisions, managed staff progress reviews and training, and delivered impactful presentations at regional conferences.

PROJECT MANAGER | THE NAVIGATORS | AUSTIN, TEXAS

June 2015 – December 2020

- Pioneered a groundbreaking regional conference, bringing together over 400 students.
- Effectively communicated the strategic vision, meticulously managed project planning, delegated responsibilities, and ensured its seamless execution.
- Developed a new training model for staff on the regional level, resulting in successful outcomes and enhanced team performance.
- Networked with diverse groups of students, creating inclusive spaces for them to connect and find support.
- Maintained regular donor communication with marketing email campaigns

STAFF INTERN AND STUDENT MENTOR | THE NAVIGATORS | COLLEGE STATION, TEXAS

May 2013 – June 2015

- Mentored students by guiding their personal and leadership development.
- Planned, executed, and led outreach strategies and marketing campaigns that increased club size by 25%.
- Oversaw execution of diverse programs, including large-scale weekly meetings for 150+ students, training sessions, and curated content for various initiatives.
- Provided guidance, feedback, and support to student volunteers, ensuring their success in fulfilling their roles.