Mark Osman
Software Engineer

(913) 302-8379   markrockwellosman@gmail.com   [Portfolio](#)   [LinkedIn](#)   [Github](#) Kansas City, MO

Skills

Languages/Frameworks/Tools: JavaScript, Python, SQL, HTML, CSS, R, SPSS**,** React, Redux, Redux Toolkit, Flask, Node.js, Express, Vite, Git, Docker, AWS S3, AWS EC2, PostgreSQL, SQLAlchemy, MySQL, Sequelize, Bootstrap, Tailwind, Pandas, Numpy, Matplotlib, Mocha, Chai, Jest, Pytest, Git, Github, Linux / Unix, Ubuntu, Agile Development & Scrum

Education

App Academy   Jan 2022 - July 2022
- Immersive 1000-hour full stack software development program. Coursework included pair programming, Object-Oriented Programming (OOP), Test Driven Development (TDD), data structures & algorithms, design patterns, REST, coding style, programming best practices, security, single-page apps, scalability, APIs, UI / UX design

Texas Tech
Master of Business Administration - Information Technology | GPA 4.0/4.0   July 2020 - Dec 2021
- Relevant graduate-level coursework: Python & Scripting Languages, Database Concepts and Design, Agile Project Management

Kansas University
Bachelor of Science, Cognitive Psychology | GPA 3.92/4.0   July 2008 - Dec 2011

Relevant Experience

St. Edmund's Retreat
IT Director   Nov 2019 - July 2021
- Overhauled aging systems, infrastructure, and outdated business processes. Developed and implemented strategic plans for technical needs that met and exceeded organizational goals. Drove decisions for the direction of operations.
- Managed multi-stage implementation of technological changes and system enhancements to business processes, policies, and infrastructure to create efficiencies and optimize organizational value chain. Led migration to cloud-based SaaS platform for program creation, online booking management, and end to end payments. Designed and analyzed custom reports and created cross-platform integrations for data migration of over 30,000 constituents.
- Created new partnerships with marketing and development teams to maximize the potential of various IT platforms, services, and tools to increase audience reach and achieve fundraising goals.
- Developed and launched a 'virtual community' web platform as a subscription service, including new live-streamed programming, new interactive Zoom events and discussion groups. Designed and oversaw buildout of onsite video production studio to create online content. Managed and maintained website.

Personal Projects

rFlix (JavaScript, React.js / Redux.js, Python / Flask, HTML5, CSS3, PostgreSQL, Docker, AWS)   [Live Site](#) | [Github](#)
A full stack single-page video streaming platform with community interaction and customizable user profiles
- Leveraged Flask session object to allow for account-sharing and secure session recall while maintaining persistence of current profile in user's browser to allow for multiple active profiles on a single user account.
- Integrated third-party packages (Swiperjs, Framer-Motion, React-Player) to create a dynamic, responsive Netflix-inspired UX / UI.
- Utilized React-Player library in conjunction with AWS to reduce server load and provide users a seamless, uninterrupted streaming experience. Integrated customizable profile settings to allow enhanced user experience.

lofidelity (JavaScript, React / Redux, Python / Flask, HTML, CSS3, PostgreSQL, Docker, AWS)   [Live Site](#) | [Github](#)
An online music community where passionate lofi fans discover, connect with, and directly support the artists they love.
- Collaborated with a team of 4 engineers, utilizing efficient git and pull request workflow in order to minimize potential merge conflicts across the stack and maximize sprint productivity.
- Integrated AWS S3 buckets for user image and song upload and to provide high-quality streaming audio experience to end users.
- Created tiered user roles so users can create accounts with different permissions to interface as a fan/listener or as an artist.

BetterNote (JavaScript, React / Redux, Node.js, Express.js, HTML, CSS, Postgres, Sequelize, Heroku)   [Live Site](#) | [Github](#)
A single page full-stack application for note-taking and organization.
- Utilized Redux architecture's unidirectional data flow with React for predictable state and reliable DOM rendering, as well as efficient rendering of search results by query filter.
- Created custom modal and various reusable React components allowing for efficient development of new forms.
- Configured Express / PostgreSQL backend with Sequelize ORM for validations, queries, CRUD functionality, and RESTful API routes.