

Melissa Michaud

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TECHNICAL SKILLS

Programming Languages: Python 3, JavaScript ES6+, Java, SQL, HTML5, CSS

Front-End: React, DOM manipulation, WebSockets, React Hooks, Redux Toolkit, Bootstrap, Tailwind

Back-End: Django 4, PostgreSQL, MongoDB, FastAPI, RabbitMQ, Docker, MySQL, Node.js, Springboot

System Design: Monoliths, Microservices, Domain-Driven Design, Message passing, Event sourcing, GIT

APPLICATION DEVELOPMENT EXPERIENCE

Community Connect | *React & JavaScript, Bootstrap, Java, Axios, Spring, PostgreSQL, Postman* 2023
[Hack for Good Hackathon - JPMorgan Chase & Co](#)

- Worked collaboratively with a team of 5 to create an app called Community Connect which allows low-income individuals to interact with their community and help find access to resources.
- Gained valuable experience with multiple technologies and implemented agile methodologies for efficient project management, successfully adhering to our 12-hour time frame.

SwapShop | *React + Javascript, FastAPI + Python, Docker, JSX, Tailwind, PostgreSQL, SQL* 2023
<https://github.com/Melissamichaud1/swapshop>

- Led a team of 4 in successfully creating and implementing an e-commerce app, showcasing project management and collaboration skills.
- Designed and implemented key features such as authentication, different user views, search functionality, and custom styling, using React and FastApi, improving user experience and data management.
- Implemented CRUD functions to improve data management, while managing secure user authentication through the creation of active session tokens using the JWT library after sign-in.
- Implemented best practices like Docker containerization, Test-Driven Development, and CI/CD pipeline through Gitlab DevOps, ensuring high-quality deployment and product reliability while ensuring secure user authentication.

Exoticar | *React + Javascript, Django + Python, Docker, JSX, Bootstrap, REST API, PostgreSQL* 2022
<https://github.com/Melissamichaud1/exoticar>

- Worked collaboratively with a teammate to develop a SPA using React for a dealership management system.
- Utilized Bounded Contexts and Domain-Driven Design principles to design and develop separate microservices for sales/service history, appointments, and inventory management.
- Practiced agile software development methods and used OOD to build reusable classes and objects, resulting in a robust and scalable web application with improved maintainability.

Event Ease | *React + Javascript, Django + Python, JSX, Bootstrap, REST API, RabbitMQ* 2022
<https://github.com/Melissamichaud1/event-ease>

- Developed an SPA for conference management that included conventions, participants, presentations, and presenters with data sourced from third-party APIs for geographic location and weather.
- Utilized best practices in software development, such as modular design and code reusability, to increase maintainability and scalability while configuring multiple ACLs to handle third-party API data.
- Implemented code to poll, queue, and publish/subscribe data between microservices using message queues such as RabbitMQ, allowing for efficient communication and data transfer between services.

PROFESSIONAL EXPERIENCE

CVS Pharmacy | *Immunologist/ Pharm. Tech* 2020 - 2022
Plato's Closet Retail | *Assistant Manager* 2018 - 2020

EDUCATION

Udemy, *React - The Complete Guide 2023 (incl. React Router & Redux)* August 2023
Hack Reactor, *Advanced Software Engineering Bootcamp with Python & Javascript* February 2023
Udemy, *100 Days of Code: The Complete Python Pro Bootcamp* September 2022
New Jersey City University, *Bachelor of Science, Biology* May 2022
Bergen Community College, *High School Dual Enrollment, Associate of Arts, Business Management* May 2019