

Charles Oller

Software Engineer

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Languages • TypeScript • JavaScript • HTML • CSS • Python • Java • SQL

Frontend Tech • React • Next.js • Redux • Zustand • Tailwind • React Router • CSS Preprocessors • Material UI • Mantine UI • Chakra UI

Backend Tech • Node.js • Express.js • Prisma • Sequelize • Flask • SQLAlchemy • PostgreSQL • MySQL • SQLite • MongoDB • Mongoose • Supabase • Firebase

Additional • Figma • LPI Linux Essential Cert. • ITIL 4 Foundation Cert. • Adobe Suite • Microsoft Office Suite • Hubspot

Projects

ThreeJS Social Media | [Github](#) | [Live](#)

TypeScript • React • Express • Prisma

- Implemented **TypeScript** across a **React Redux** frontend and **Express** with **Prisma** backend to ensure strong type safety across the fullstack **CRUD** application, with a **Supabase** hosted **PostgreSQL** database.
- Utilized **ThreeJS** and **React Three Fiber** to address the need to efficiently render 3D graphics on the web in a GLTF format, employing **React Suspense** and the **Intersection Observer API** to manage their active canvases.
- Developed a responsive UI with clean, maintainable stylesheets through **CSS Modules**, and utilized advanced CSS concepts, such as transitions, animations, pseudo-elements, and custom properties.

Discord Clone | [Github](#) | [Live](#)

React • Flask • SQLAlchemy • SocketIO

- Worked in a team of 3 developers over a 2 week **sprint** in a shared **GitHub** repository to build a pixel perfect clone of the popular chat app, Discord.
- Led frontend development, design, and **websocket (SocketIO)** implementation in a **React Redux** with **React Router** application.
- Designed a flexible database schema, then efficiently implemented this schema using **SQLAlchemy** and **Flask**.

Gesture Based AI Movie Recommender | [Github](#) | [Live](#)

React • Supabase • Embeddings • Completions

- Built a responsive, gesture-based UI in **TypeScript** with **React**, **React Router**, and **Tailwind**, deeply integrating **use-gesture** and **react-spring** libraries for a gamified input approach.
- Implemented a **semantic search** system based on a personalized **embedding** generated by a user's preferences to search a **pgvector** database hosted by **Supabase**.
- Employed open source **Hugging Face** model to generate embeddings, and **ChatGPT API** to summarize a user's personalized embedding with a **streaming completion**.

Experience

Software Engineer • AdCopy.ai • Tampa, FL

March 2024 – Current

- Contributed to core platform features in large shared repositories utilizing **TypeScript**, **Next.js**, **Express.js**, and **Prisma** that heavily leverages the **Meta Marketing API**, successfully shipping bug-free code to production.
- Worked in a multi-role capacity spanning **full stack development** and **UI/UX** to fill a unique niche in a flexible startup environment, creating **Figma** mockups and implementing the frontend and backend for these features.
- Spearheaded organizational changes to increase awareness of efficient code convention, documentation, and overall application design.

Technical Assistant • Snap! Orlando • Orlando, FL

July 2022 – July 2023

- Transitioned a ~500 person contact list from spreadsheet to **HubSpot CRM** (grown to 10k+ contacts) and uploaded all events since 2010 into Wix Content Manager.
- Supported appropriate parties in all fundraising-related activities, including planning, execution, grant writing, and other operational responsibilities to drive success for current and future organizational projects.

Education

Western Governors University • BS, Computer Science • Salt Lake City, UT

Graduated April 2024

App Academy • Full Stack Web Development Bootcamp

Graduated August 2024