Brett Kolodny

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Experience

MEW - Software Engineer
May 2022-Current

- Designed and developed a browser extension in Vue3 and TypeScript used by over 20,000 users across all platforms.
- Created internal tools and APIs to facilitate testing across all of MEW's products and remove redundancy within their codebases.
- Developed internal TypeScript libraries to unify code across all of MEW's products to reduce redundant code, and unneeded development

Acala - Software Engineer
Jan 2021 - May 2022

- Developed APIs in Rust to facilitate the on boarding of over 50,000 users onto Acala's platform.
- Designed and created a web application in React to guide users in how to use the platform.

Projects

Mancala – Multiplayer Web Application

- Full stack implementation of Mancala built with an Elixir/OTP backend, Phoenix server, and ReasonML/React frontend.
- Game logic is handled using Rust native interface functions.
- Players use a unique link with which they can invite friends to play and see real time game updates.

Tech: Elixir/OTP, Phoenix, ReasonML/JavaScript, React, Rust

React Gleam

- A React bindings library for the Gleam programming language.
- Implements all of the core React features including all of the native React hooks so they are available in Gleam out of the box.
- Includes custom hooks for routing that take full advantage of Gleam's features.

Tech: Gleam, TypeScript, React

Hug – Helpful Errors

- A Gleam library that generates helpful error messages for CLI tools.
- Inspired by Rust's compiler messages, hug provides multiple levels of logging, customizable messages, and relevant source snippets.
- Fully compatible with existing JavaScript, TypeScript, Erlang, and Elixir code.

Tech: Gleam, TypeScript, Erlang

Todoish

- Sharable todo list that lets users add, remove, and update items on the list while seeing others do the same in real time.
- Utilizes Erlang's OTP patterns to automatically recover from crashes.
- Built with LiveView to allow for fast renders on first load and quick real time updates over the wire via websockets.

Tech: Elixir/OTP, Phoenix, Ash, Postgres

Education

University at Buffalo, State University of New York
Aug 2015 - May 2020

- International Christian University (ICU) – Tokyo Japan – Study Abroad

Major: Computer Science