

# Brett Kolodny

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## Experience

### Acala - Software Engineer

May 2022-  
Current

- 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 Acala.

### MEW - Software Engineer

Jan 2021 -  
May 2022

- Designed and developed a browser extension in Vue3 and TypeScript used by over 20,000 users accross all platforms.
- Created internal tools and APIs to facilitate testing accross 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, repeated work, and unneeded development

## 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*

### Distributed Publisher-Subscriber System

- Distributed publisher-subscriber system where users can subscribe to topics or specific publishers and be notified when a message is posted.

*Tech: JavaScript, Node, ExpressJS, Docker*

### Study Buddy

- Spaced repetition learning application where users create decks of cards consisting of materials they wish to memorize.
- Implements a priority queue in the rust backend to determine what cards the user should study.

*Tech: JavaScript, React, Reason, Rust, Tauri, HTML/CSS*

### Incantation Catastrophe

- Top-down retro style game where players have to survive as long as possible against waves of enemies.

*Tech: Rust, Amethyst, Blender*

### 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*

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