


Andrew Chang-DeWitt

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 github.com/andrew-chang-dewitt

Experience

We Cook Sometimes

[www we-cook-sometimes.andrew-chang-dewitt.dev](http://www.we-cook-sometimes.andrew-chang-dewitt.dev)

 github.com/andrew-chang-dewitt/we-cook-sometimes

 github.com/andrew-chang-dewitt/we-cook-sometimes-server

Typescript SASS React
React-Router CSS-modules
Mocha Enzyme
React Testing Library
Webpack Node Express
RESTful API NGINX

- A single-page web application to help my family & I pick something to cook
- Hosts shared recipes for posts made to a cooking Instagram account my wife & I run
- Implemented a **custom graph data structure utility** for representing relationships between questions
- Developed a **Result type**, similar to Rust's Result enum, to encapsulate success & failure states
- Stores data in MongoDB & serves it from a REST API built with Node & Express
- API sources data from Trello content, updates using webhooks from Trello, & checks for missed changes using a scheduled job
- More info: andrew-chang-dewitt.dev/blog/tags/project:-we-cook-sometimes

Personal Website & Blog

[www andrew-chang-dewitt.dev](http://www.andrew-chang-dewitt.dev)

 github.com/andrew-chang-dewitt/andrew-chang-dewitt-website

Typescript Javascript SASS
Gatsby CSS-modules Node
Express Mocha Enzyme
React Testing Library NGINX

- A personal website to promote myself as a software developer
- Utilizes custom implementation of hash routing & anchor links on top of Reach Router
- Implemented blog with dynamically generated post pages, post list page, & filtering/sorting using GraphQL & a custom React hook for managing query parameters
- Found Gatsby & Mocha difficult to get to play well together—in the future, would like to convert the all the tests to Jest & rewrite any Enzyme tests to React Testing Library
- More info: andrew-chang-dewitt.dev/blog/posts/personal-website

Pi GPIO Sensor to MQTT Module



github.com/andrew-chang-dewitt/rpi-security-gpio2mqtt

Python

MQTT

pytest

Docker

Alpine Linux

bash

- An IOT microservice to monitor sensors attached to a Raspberry Pi's GPIO pins
- Intended to communicate with a custom home security alarm system, as well Home Assistant for home automations
- Uses **Functional Core, Imperative Shell** design pattern
- Distributed as a Dockerfile to aid in installation & maintenance
- Reads configuration from a user-maintained YAML file
- Implemented sensors as an extensible library to allow users to easily add new sensor types
- Planning to rewrite in Rust to be compiled for running on a microcontroller, such as Arduino or ESP32 board
- More info: andrew-chang-dewitt.dev/blog/posts/rpi-gpio-sensors-mqtt

Employment

Department of Family Resources

State Eligibility Consultant

State of Indiana, June 2019 - August 2020

Eligibility Specialist Working Lead

Knowledge Services, May 2018 - June 2019

Eligibility Specialist

Knowledge Services, January 2018 - May 2018

Eligibility Specialist

Conduent, August 2016 - December 2017

- Started as a contract employee & learned quickly, advancing to a lead position among a team of contractors
- Promoted again to state employee in June of 2019
- Worked directly with clients to assist in understanding, obtaining, & changing benefits
- Trained new employees & worked with experienced employees to make improvements where necessary
- Collaborated with local office & regional management to improve business processes for efficiency & accuracy

Education

Ball State University

2009 - 2013, Muncie, IN

Completed 113 credits towards a Bachelor's of Landscape Architecture