

TIMOTHY MILLER

FULL STACK DEVELOPER

PROFESIONAL PROFILE

At Prepare Software, I am currently Project Manager for a hardware IOT project called Tendies Switch. I am collaborating with Senior-year Industrial Design, Film, and Fashion Design majors to create a commercial product based on a prototype I created two years ago. I also maintain Clean My Android, and am working with a Software Engineer friend from college to refactor the open source Python codebase for crypto-kill-switch for use in Tendies Switch. In addition, I mentor students in Full Stack Development and Web Development. More information about the prototype for Tendies Switch can be found here: timknowsbest.com/building-a-crypto-kill-switch

JAVASCRIPT

- Released a MERN stack template for making modern web apps (persistent data store, pretty text formatting, responsive components, optimized images, CDN integration, Progressive Web App support, and SEO where applicable) to open source. I added GraphQL, the Ant Design component library for React, JSX in Markdown, and TypeScript configs for webpack. In the documentation, I demonstrated usage of either PostgreSQL or MongoDB. More information on the template can be found here: timknowsbest.com/deploy-mern-stack-to-production
- Created a personal blog based on my MERN stack template using Ghost CMS for hosting and editing the content. I composed GraphQL resolvers for accessing the Ghost CMS REST API to lower the number of round trips a client needs to make with the content server to improve load times when network latency is high. I wrote a Next.JS config to render dynamic URLs based on the article title. The landing page for the blog is here: timknowsbest.com
- Refactored the Python codebase for crypto-kill-switch to TypeScript. I sped up the runtime of algorithm which determines the optimal trading pairs to achieve a desired crypto to crypto trade by implementing Dijkstra's algorithm and weighting the edges based on exchange rates. The open source portions of the codebase can be found here: github.com/timothymiller/crypto-kill-switch
- Designed a secure onboarding process as a single page app for Tendies Switch by using Ad-hoc wi-fi, Node.js, and React.

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JAVA

- Created the business logic for over 30 Android apps (including educational games, SMS + XMPP messaging apps, and cache cleaners).
- Created a trading algorithm using the Interactive Brokers Java API to implement a swing-trading strategy given to me by an advisor. I refined the strategy by back-testing and using statistical analysis.
- Implemented Java 7 and 8 on all of the above projects. Refactored numerous Android apps to Kotlin.

PYTHON

- Wrote a dynamic DNS client for Cloudflare using Python 3. The source code for the project can be found here: github.com/timothymiller/cloudflare-ddns
- Created a Python script with event listeners for connecting to a Raspberry Pi GPIO based hardware switch to transfer between risky crypto assets to stable-coins at the flip of a switch. The script uses the Binance Python API.

MOBILE

- End to end ownership of Clean My Android, released as one of the first 10,000 apps on the Android market. Maintained this app for over eight years, remodeling the codebase every few years to match the latest Android Design Guidelines. Currently, Clean My Android has been overhauled to support the MVVM (Model, View, ViewModel) pattern using Android Jetpack libraries, such as Room, ViewModel, LiveData, and AppCompatActivity. The app's website is written in Vue.js and deployed as a static site: cleanmyandroid.net

CONTACT

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