

Ryan McKevitt

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PROJECTS

Realtime Toll Tracker Mobile Android App

May 2023 - Present

github.com/ryan-dfw/tollview/TollView

- Developed a Kotlin Android mobile app to track real-time toll expenses as they are accrued when driving along tollways.
- Integrated Android app with Firebase backend to support NoSQL Realtime Database for storing toll gantry information and user toll data.
- Integrated app with Firebase Authentication to support user accounts with persistent log-in functionality to create seamless user experience between sessions and across devices.
- Used Python requests to source toll gantry information and clean the JSON before importing it to the Firebase database.
- Utilized Android Location API for real-time tracking of user's position, enabling precise identification of toll gantries passed for accurate toll expense calculation.
- Designed UI in Android Studio using XML.
- Displayed user tolls in a table on the home screen of the app.

Reactive Web Portal for TollView

Jan 2024 - Present

tollview.netlify.app

- A browser-based frontend built with Vite, using React with Typescript.
- Interfaces with TollView's Firebase Authentication and Realtime Database to Create, Read, Update, and Delete (CRUD).
- Hosted via Netlify sourcing from Git to achieve Continuous Integration / Continuous Development (CI/CD).
- Able to demonstrate functionality of site and backend with a demo button, initializing and authenticating a new user. and appending 15 semi-random entries to their UID in the database, instantly viewable as well as persistent.

Rust Implementation of an HTTP Server

Dec 2022 - Feb 2023

github.com/ryan-dfw/Rust_HTTP_Server

- Implemented a TCP Listener.
- Cleaned data on a buffer to discard invalid UTF-8.
- Worked with lifetime specifiers.
- Converted from sending via TcpStream to any supporting struct that implements the "Write" trait to promote server flexibility in production and in unit testing.
- Implemented custom trait for a Handler in order to handle path validation and serve correct files and HTTP responses for a given request.
- Added canonical path validation to prevent directory traversal vulnerabilities.

WORK EXPERIENCE

Audio Video Lead

Encore | Dallas, TX

May 2023 - Present

Set up and run live audio & video for crowds of 300-1,000. Fluency in media creation/delivery in Premier, Photoshop, Lightroom, FCPX, and Davinci Resolve. Executed client-facing roles within IT customer service and sales, improving customer experience.

Photography / Videography

Elm Aperture | Dallas, TX

Aug 2014 - May 2023

EDUCATION

University of Texas at Dallas Full-Stack Web Development Bootcamp, powered by Fullstack Academy

Feb. 2024

CERTIFICATIONS

The Complete Android 12 & Kotlin Development Masterclass

Hands-On Systems Programming with Rust

SKILLS

Languages: Kotlin, TypeScript, JavaScript, SQL, PSQL, Postgresql, NoSQL, Rust, ARM, HTML, CSS

DevOps: Firebase, Postman, GCP, Cloud, Docker, Linux/Unix, WSL

Frameworks: React, Angular, Svelte, Node.js, Vite, Jetpack Compose, Flask, TDD, Agile, Bootstrap, RESTful API

IDEs: VS Code, WebStorm, Android Studio, IntelliJ, PyCharm, CLion, RustRover