

Ryan Voong

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Languages and Technologies

- Javascript; Typescript; React 18; NodeJS; ExpressJS 4; HTML; CSS; Tailwind CSS; MongoDB; Mongoose; PostgreSQL; Firebase; AWS Lambda; AWS CloudFront; AWS API gateway; Git; GitHub; GitHub Actions; Jest; Mocha; Chai; Supertest

Experience / Projects

PolishByCin: <https://www.polishbycin.com>

2024

- Deployed full stack web-application for beauty service (nail services) appointment booking for up to 19 appointments per staff a day.
- Built architecture using Typescript with ReactJS and ExpressJS, while integrating PostgreSQL to ensure data integrity and type safety throughout the application.
- Designed API using RESTful architecture to manage efficient communication with client side.
- Reassessed and reduced notification delivery times by 50% for email notification feature.
- Enhanced photo gallery performance by implementing a cache mechanism, reducing calls to Instagram API, resulting in faster load times by 50% and improving user experience.
- Collaborated with professionals/practitioners to understand industry practices and help tailor the user experience to prioritize meeting users/client needs.
- <https://github.com/ryanpv/beauty-service-app>

WorldAnime: <https://mal-simplified.web.app/>

2023

- Full stack web-application built using ReactJS, ExpressJS, Firebase, and Cloud Firestore database that features 1000s of anime titles and trailers.
- Collaborated with viewers/users to acquire feedback and improve user experience by redesigning the UI and introduced locally stored features.
- Deployed with Firebase Hosting and Firebase Functions for serverless architecture to handle 100 concurrent requests.
- Implemented Continuous Integration/Continuous Delivery (CI/CD) pipeline through automated GitHub Actions to improve production deployment to at least two times a week.
- Optimized for scalability with CRUD operations through data caching and pagination resulting in 30% reduction in load times.
- <https://github.com/ryanpv/mal-simp-api> / <https://github.com/ryanpv/mal-simp>

Video Streaming Server:

2023

- <https://github.com/ryanpv/node-video-streamer> / <https://ryanvoong.dev/#/blogs/expressjs-video-streaming-server-with-aws>
- Designed and created ExpressJS server that leverages AWS CloudFront signed URLs to securely deliver video content through 8 step process.
- Resolved slow video content delivery by converting media to use HLS (HTTP Live Streaming) protocol to stream video on-demand.
- Increased performance by using CloudFront CDN and edge-optimized API gateway resulting in up to 50% decrease in load times.
- Developed with AWS services, such as CloudFront for content delivery, API Gateway to manage API, and Lambda for serverless architecture, to produce reliable, secure, and scalable performance.

Reddit Bookmark Manager:

2022

- <https://github.com/ryanpv/reddit-bookmark-manager-client> / <https://github.com/ryanpv/reddit-bm-api>
- Full stack web-application created with ReactJS and ExpressJS that allows syncing to user Reddit accounts and organize 1000 saved posts in custom categories.
- Analyzed slower load times and improved performance by implementing pagination for fetched data from Reddit API and MongoDB.

Additional Experience

- Guided 1 on 1 mentorship and trained registered nurses in an acute care setting.
- Redesigned clinic flow plan for mass vaccination clinic in nursing leadership role to increase clinic productivity by 15% along with client and staff satisfaction.

Current