Ryan Voong

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SKILLS

Languages: Typescript, JavaScript, HTML, CSS

Data: PostgreSQL, MongoDB, Cloud Firestore, NoSQL, SQL

Libraries: ReactJS, ExpressJS, Tailwind CSS, Bootstrap, Mongoose, Firebase

Other: Git, GitHub, GitHub Actions, REST, CI/CD, AWS Lambda, AWS CloudFront, AWS API Gateway, Jest, Mocha, Chai, Supertest

EXPERIENCE / PROJECTS

PolishByCin: (Website) (GitHub)   2024
- Deployed full stack nail service appointment application for booking and business management using Typescript and ReactJS for the frontend and ExpressJS with PostgreSQL for the RESTful backend.
- Collaborated with nail industry professionals as the sole software developer and developed the website to their specifications.
- Features photo gallery caching to enhance performance by reducing calls to the Instagram API resulting in faster load times by 50% resulting in improved user experience.
- Implemented server caching to support concurrent request handling for up to 200 connections.
- Utilize role-based access control to provide business owner with flexibility in site content management while ensuring data security.

WorldAnime: (Website) (GitHub - Frontend) (GitHub - Backend)   2023
- Deployed full stack application for retrieving and storing data on anime titles and trailers using ReactJS on the frontend and ExpressJS, Firebase, and Cloud Firestore database for the backend.
- Collaborated with users through user interviews and feedback analysis to enhance UI/UX and introduced locally stored features.
- Deployed with Firebase Hosting and Firebase Functions to use serverless architecture achieving up to 100 concurrent requests.
- Optimized for scalability with CRUD operations through data caching and pagination resulting in 30% reduction in load times.
- Implemented Continuous Integration/Continuous Delivery (CI/CD) pipeline through automated GitHub Actions to improve production deployment.

Video Streaming Server: (GitHub) (Blog)   2023
- Designed and created ExpressJS server that leverages AWS CloudFront signed URLs to securely deliver video content.
- 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 to delivery content more quickly.
- 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: (GitHub - Frontend) (GitHub - Backend)   2022
- Full stack application for organizing Reddit users' saved posts in custom categories created with ReactJS on the frontend and ExpressJS with MongoDB for the backend.
- Analyzed slower load times and improved performance by implementing pagination for fetched data from Reddit API and MongoDB.

PROFESSIONAL EXPERIENCE

Present
- Applied complex problem-solving skills in a high-stakes medical environment, routinely analyzing patient data and adapting treatment protocols in real-time.
- Excelled in a collaborative multidisciplinary team environment, effectively communicating with doctors, patients, and staff to deliver optimal healthcare outcomes.
- Demonstrated leadership by spearheading redesign of clinic flow plan for a mass vaccination clinic resulting in a 15% increase in clinic productivity by 15%, and enhanced client and staff satisfaction.
- Rapidly adapted to new medical technologies and protocols, ensuring precise management of equipment and patient care.