MINH TRAN

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TECHNICAL SKILLS

Frontend: React.js, Next.js, HTML, CSS, JavaScript/Typescript

Backend: Express.js, Node.js, MongoDB, PostgreSQL, MySQL, Java, C++

Tools and Utilities: Webpack, Babel, Docker, AWS EC2, NGINX, Mocha, Chai, New Relic, ¡Query, Socket.io

SOFTWARE APPLICATIONS

Tattoo Art | Fullstack | React.js, Express.js, Node.js, MongoDB, Typescript

Github

Tattoo Art is an application for users to create contests and compete as well as allowing users to show their work and artistic view.

- Constructed client using React and MUI for its quick and responsive UI.
- Structured server with RESTful API architectural style and MVC framework.
- Integrated Sockets for real-time private messaging to other users.
- Designed **UI/UX** for various components/pages.

Congo Prime | Fullstack | React.js, Express.js, Node.js, MongoDB, AWS EC2 **Github**

An e-commerce platform composed of various microservices to improve user's experience with product purchase and surfing.

- Rendered using React with styled-components to isolate modules from other microservices.
- Utilized MongoDB for its schema-less database, deep queries abilities, and simple/quick setup for project's agile workflow
- Deployed server on AWS EC2 to provide accessibility to all users, scalability, and reliability.
- Improved page load time by compressing the downloadable data served to users which reduces payload size and increased page load speed from 7 to 48.

Reactors | Back-end | PostgreSQL, AWS EC2, NGINX, New Relic

An e-commerce app that holds over 10M records of data in the database, which is scaled to handle thousands of user's requests.

- Populated database with COPY query and write stream to efficiently load a large amount of data.
- Created indexes to optimize queries, storing ids in a B-tree, and reduced query execution time from ~2000ms to < 50ms.
- Stressed test database, received a throughput of ~10k rpm with ~800ms per request on the local machine, and improved to ~40k rpm with ~1400ms per request on **EC2** instance.
- Horizontally scaled database using NGINX load-balancer, round-robin implementation on 4 microservices, received ~112k RPM with ~3.32ms per request.

EDUCATION

Hack Reactor, *Advance Software Engineering Immersive Program* (2021) California State University East Bay, *B.S. Computer Science* (2020)