Yaohua Cao

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Education

Hunter College, New York, NY   *Jan 2021 – Dec 2023*
Bachelor's in Computer Science, Minor in Mathematic
Courses: Data Structure & Algorithm, OOD in C++, Database Management, Computer Architecture, Statistics,
*   Operating System, Cloud Computing, Embedded System, Deep Learning, IOS Development,*
*   Web Design(HTML, CSS, JavaScript)*

Skills

- **Languages**: Java, JavaScript, TypeScript, HTML, CSS, C++, Python, Swift
- **Frameworks**: SpringBoot, SSM (Spring, Spring MVC, Mybatis), ReactJS, React Native, NextJS, Tailwind
- **Developer Tools**: AWS, Git/GitHub, MySQL, PostgreSQL, Redis, Docker, Jest, React-Testing

Experience

Full Stack Developer Intern | React Native, AWS, TypeScript, SQLite, Jest, Git, CICD   *May 2023 – Present*
LetsPlayHoops LLC   *New York, NY*
- Collaborated with the team using Git/GitHub to develop a cross platform mobile application using React Native for users to browse upcoming events, purchase tickets, and communicate with the community.
- Built the payment flow for secure ticket purchases and coupon functionality using Stripe API, AWS Lambda, GraphQL, and DynamoDB, supporting multiple accessible payment methods (Apple Pay, Affirm, Klarna, Alipay).
- Implemented user authentication flow enriched with smooth progress bar animation to provide real-time feedback.
- Introduced unit testing with Jest and React-Testing, achieving 90% test coverage across authentication flow.
- Leveraged AWS GraphQL to build a real-time chat system, optimizing message history synchronization with DynamoDB, and improving query performance by 80% through leveraging SQLite with cursor-based pagination.

Frontend Web Developer Intern | React, TypeScript, Tailwind CSS, Git   *July 2023 – Aug 2023*
TheDifferenceApp   *New York, NY*
- Developed a dynamic web application using React Router, Events, Forms, Animations, and various Hooks concept.
- Used Tailwind CSS and media queries to create a navigation menu with responsive design.
- Employed Reducer and Context API to implement Redux-like global state management provider to store user values.

Projects

Student Community Platform | AWS, React, JavaScript, GraphQL, Git, Jest   *Aug 2023 – Dec 2023*
- Led a team of four in utilizing AWS and React to develop a web application featuring user authentication, the capability to query available financial aid resources based on student information, and an interactive student forum.
- Crafted a dual-endpoint REST API with Lambda and DynamoDB, enabling precise and broad financial aid searches.
- Engineered a real-time forum with AWS AppSync and GraphQL, integrating Cognito for user authorization to ensure secure post creation, commenting, and file sharing with owner-specific edit and delete permissions.

Food Delivery App | **Java**, **SpringBoot, Redis, MySQL, HTML, CSS, Docker, Nginx.**   *Jan 2023 – May 2023*
- Developed a full-stack food delivery application, facilitating customer ordering and menu management, with features for user and food administration and image uploads.
- Containerized the application using Docker and utilized Nginx for load balancing to optimize resource utilization.
- Orchestrated primary/replica database architecture with read/write splitting to enhance query efficiency and load distribution, improving system performance.
- Accelerated data access speeds by deploying Redis caching for high-frequency query results to reduce latency.