

Huy Hoang

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Technical Skills

Programming Skills:

Proficient - C++, Java, SQL

Novice - Html, Css, JavaScript, TypeScript, Php, Svelte, R, Rguroo, Python, React, Redis, PineScript, C#, C, RabbitMQ, Kafka, Kotlin, Bash, Graphql, Assembly

Software: Visual Studio Code, Atom Ide, MySQL, Docker, AWS, Unity Engine, foreman, Ubuntu, Firebase

Related Coursework: Object-Oriented Programming(C++), Data structures and algorithms(C++), File Structures and databases(MySQL), Operation Systems, Cyber Security, Web Frontend Development, Web Backend Development, Data Analysis and Big Data, Network Security Fundamentals, Compilers and Languages, Mobile Dev Programming, Artificial Intelligence, Computer Architecture & Assembly Language, Computer Communications, Algorithm Engineering, Software Engineering.

Education

Computer Science

California State University Fullerton • Fullerton, CA

05/2024

Bachelors of Science in Computer Science

Computer Science

Orange Coast College • Costa Mesa, CA

05/2022

Associates of Science in Computer Science

Projects

Wild Ryde Fleet

- Hosting a simple web site with AWS
- The application employs a serverless architecture hosted on Amazon Web Services (AWS) and offers users a simple HTML-based interface to request rides and manage their accounts.
- Backend includes key components like AWS Lambda for backend logic, Amazon DynamoDB for data storage, Amazon Cognito for authentication, and API Gateway for RESTful APIs.
- Users can register, log in, input pickup locations, and request rides, triggering dispatches.
- The entire frontend is hosted on Amazon S3, with security, scalability, and monitoring supported by AWS CloudWatch.

Trading Bot

- Developed a Pine Script to generate alerts triggered by specific trading strategy conditions.
- Integrated the script with a trading platform using webhooks, enabling automated order execution upon alert activation.

School Portal Backend Microservices

- Utilized AWS CLI, DynamoDB Local, Redis, SQLite3, Foreman, KrakenD, Docker, LiteFS, RabbitMQ, and FastAPI for back-end development.

- Designed and implemented a relational database using SQLite3 to manage data for students, teachers, and registrars.
- Developed API endpoints and integrated the database using FastAPI, ensuring seamless data handling and operations.
- Configured endpoint authentication and authorization policies using KrakenD to enforce secure access and role-based privileges.
- Migrated the relational database to Redis and DynamoDB to leverage non-relational database capabilities.
- Implemented a messaging queue with RabbitMQ and webhooks to deliver real-time notifications for students efficiently.

Dragon Warrior Video Game

- Developed a 2D platformer using Unity with engaging gameplay mechanics.
- Implemented a robust backend API leveraging AWS to handle user data retrieval and storage securely.
- Designed and integrated user-friendly UI components for login and sign-up processes.
- Enhanced player experience by incorporating features such as volume control and a functional pause menu.

Inventory tracker database

- Developed a user-friendly website for inventory management, incorporating seven essential features to enhance usability.
- Designed a robust relational database to ensure functionality and maintain data consistency across all entities.
- Utilized **HTML, CSS, PHP, SQL, and JavaScript** to build and power the website efficiently.

Acmcsuf.com Website

- Learned to make changes to school club website using Github's code review and submission technology including git, push, pull, commit.
- Used NodeJS, npm and Svelte to make incorporate new features for site including dark mode, and blog support.

Leadership and community involvement

Association of computing machinery Fullerton, CA Development project member 2022-2024

- Attended meetings weekly to keep up with current github issues that needed resolving
- Actively making contributions to the acm website github issues and PRs
- Regularly attend club meetings and activities.

Soft Skills

Excellent Communication, First-Rate Attention & Accuracy , Active Listening, Analytical Thinking, Complex Problem-Solving , Strong Organization, Integrity & Accountability , Strong Work Ethic

Languages

English, Vietnamese