Victor Chhun

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Education

University of California, Irvine — Irvine, CA

Bachelor of Science in Computer Science | GPA: 3.698/4.0 — *Sept. 2020 – June 2024*

Relevant Courses

Data Structure Implementation & Analysis, Introduction to Data Management, Project in Databases and Web Applications

Projects

Job Tech Stack | *React, ExpressJS, NodeJS, MongoDB, ChartJS, Axios, Vercel, Clerk* — Nov. 2024 - Mar. 2025

- Engineered a full-stack web application, utilizing Clerk for seamless account management, to analyze job descriptions, extract technical keywords (e.g. Java, SQL, React), and store structured data in MongoDB for efficient querying and analysis.
- Implemented an interactive and responsive frontend with React, integrating Chart.js to dynamically generate data visualizations, including a pie chart for keyword frequency and line graph tracking job applications over time.
- Built a reliable backend using Node.js and Express.js to handle data parsing, API requests, and secure communication between the frontend and MongoDB using Axios.
- Optimized deployment by hosting the application on Vercel, leveraging its serverless architecture to ensure high availability, fast performance, and scalability under varying workloads.

To-Do List Application | *Java, JavaScript, React, NodeJS, MongoDB, Spring Boot* — July - Sept. 2024

- Architected a robust to-do list application leveraging Spring Boot and MongoDB, integrating React, NodeJS, and Bootstrap for an intuitive UI; deployed on Vercel and Railway
- Implemented CRUD features (create, read, delete, and update tasks) through the Spring Boot to enhance user experience. Introduced RESTFUL APIs to communicate between server and client, improving the overall user experience with reliable task management features.
- Leveraged React and Bootstrap to create a fully responsive user interface for the application. Utilize React components to update the webpage based on user interaction, increasing the usability of features.
- Devised the application with stability in mind to support future features and handle multiple users' information using modular components on both the backend and frontend sides.

Fabflix Movie Database Web Application | *Java, JavaScript, AWS, jQuery* — Sept. - Dec. 2023

- Fully built architecture from end-to-end that can perform all features under 500 milliseconds. Coordinated with a colleague to set up AWS instance, MySQL, Tomcat, imported a large database of movie information, and created a new GitHub repository for version control.
- Created about ∼25 medium features, e.g. fully functional website that displays a catalog of 1000s of movies, cart checkout backed by sessions, secure login using SHA256 hashing and sessions, full-text search and auto-complete backed by a cached, bot detection using reCAPTCHA, protection against SQL injection attacks via Prepared Statements, scaled website by implementing optimization including MySQL connection pooling, MySQL replication, and Apache load balancing.
- Introduced a Primary-Secondary replication strategy that boosted JDBC call performance by 44%, and optimized connection pooling along with Apache load balancing to enhance query times by an additional 24%.
- Assembled an ETL pipeline to efficiently parse and process large XML files, validated through testing on files up to 5MB, to augment the already large database of movies.

Technical Skills

Languages & Databases : Java, Python, JavaScript, MySQL, PostgreSQL, MongoDB, NoSQL, TypeScript
Frameworks & Libraries: React, Express.js, Node.js, Axios, JDBC, jQuery, Spring Boot, Django, Tailwind CSS, Next.js
DevOps & Tools: Git, Github. Maven, AWS, Tomcat, JMeter, JUnit, Vercel
APIs & Architecture: RESTFul APIs, Microservices, Clerk