Harrison Kim

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Profile

   I am a very passionate and eager-to-learn software engineer focusing on full-stack web development. Particularly interested in system design to deliver the most effective and efficient solutions. With strong attention to detail and excellent problem-solving skills, I enjoy writing logically succinct code to solve real-world problems.

Work Experience

Freelance Full Stack Engineer | Next.js, MongoDB, Stripe, Resend, Next-Auth, i18next   Jun 2023 - Sept 2023
dandycv   Remote

- Optimized the DB system by meticulously designing data model relationships, leading to a remarkable 50% reduction in access frequency.
- Effectively managed large volumes of user data within the admin page by incorporating features like search, sorting, and filtering, achieving a 70% reduction in loading time through lazy loading with pagination.
- Implemented a payment system using Stripe and integrated data sharing with a desktop application through APIs.

Full Stack Engineer | Laravel & Vue.js, Tailwind, SQL, AWS, Jira, Confluence, BugSnag   Dec 2021 - Jan 2023
modzee Software   Hamilton, ON (Hybrid)

- Enhanced DB performance by leveraging Eloquent ORM in Laravel, cutting DB access time by 33%.
- Optimized the router with resource controllers for enhanced maintainability, reducing the number of routes by 25%.
- Enhanced performance by achieving a 60% reduction in loading time through the successful migration from vanilla JavaScript and jQuery to Vue.js.
- Designed and implemented a strategic, user-focused multivendor e-commerce platform, covering store, inventory, orders, and payment pages, ensuring seamless functionality and performance optimization.
- Efficiently addressed Jira tickets for new features, improvements, and bug reports in BugSnag, while producing comprehensive project documentation on Confluence to promote team collaboration.

Related Projects

mosPic | Next.js, TypeScript, Open Source Community, Project Management   May 2023 - Present

- Distributed tasks effectively to each team member and ran a 2 week-sprint using Agile as a project manager.
- Utilized Google CoLab to generate an ONNX model, enabling the image segmentation AI to analyze given images.
- Engaged with the open-source community to acquire backend code running SAM (Segment Anything), enabling the generation of image embedding files and facilitating focus on web development tasks.

Dashboard | Laravel & Vue.js, Inertia.js, Tailwind, Pinia.js, Agile, Laravel Forge, AWS, Nginx   Jan 2023

- Configured AWS VPC and EC2 instances with Nginx, and managed DNS for web hosting with personal domain.
- Enhanced performance by 40% with Inertia.js, bolstering SSR for faster loading and improved user experiences.

University Campus Map | Three.js   Fall of 2017

- Utilized osm2world to create 3D models from OSM data, significantly reducing development time.
- Implemented physics in the map with interactions with user input.

Skills

HTML | JavaScript | jQuery | TypeScript | Tailwind CSS | SQL & NoSQL (MongoDB) | Schema Design | AWS | Nginx | Version Control (GitHub, Bitbucket) | CI/CD | TDD | Python | Java (OOP) | Android Studio | Figma | Responsive Design | Agile | Time Management | Communication | Leadership

Education

University of Manitoba   Sept 2015 - May 2020
B.Sc in Computer Science   Winnipeg, MB