Ken Hattori

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Summary

   Experienced **Software Engineer** with 8 years of experience in web development, specializing in **E-commerce**, **Video Production**, and **SaaS platform** development mostly using **Ruby** and **Elixir**.   Proven track record in **managing** and **optimizing large-scale applications**, with a strong focus on **performance**, **scalability**, and **user experience**.   Seeking to leverage my technical expertise and passion for **problem-solving** to drive **growth** and **innovation** in a dynamic software development team.

Experience

Software Engineer at Trady   Dec 2022 - Nov 2023

- Involved in **system design**, **database design** and **development** for **E-commerce platform** and successfully delivered the **MVP** of the service within a year, utilized **React**, **Nest.js**, **Ruby** and **PostgreSQL**.
- **Migrated** legacy **Ruby** code to **Nest.js**, resulting in a 13% improvement in performance and 14 % increase in maintainability.
- Using **Redis** for **caching**, improving our application's **response time** by 36% and reduced database load by 45%, resulting in a more efficient and scalable system.
- By implementing a **company design system** and **component library** using Storybook for feature use, were able to achieve a 32% reduction in development time, resulting in a more efficient and streamlined development process.
- By deploying the project to **Digital Ocean** using **Docker** for containerization and leveraging **GitHub Actions** for **CI/CD pipeline**, achieved a 28% reduction in deployment time and a 55% increase in deployment frequency, resulting in faster and more frequent releases.
- Utilizing **Cloudflare's CDN** and **load balancing services** resulted in a 23% reduction in page load times and a 31% increase in server scalability for our web application.
- Implemented **push notification** and **email notification** services using **Action Cable**.
- Integrated with **multiple payment services** for an ecommerce system involved implementing secure and seamless **payment processing**, ensuring compatibility with diverse payment methods, and maintaining PCI compliance.

Software Engineer at 90Seconds   Oct 2018 - Dec 2022

- Designed and Implemented a **Microservices-based architecture** for a **Video Production platform development**, allowing for seamless integration with External APIs and improving overall scalability and maintainability which reduced the deployment time by 5% and development time by 20%.
- Built out several microservices such as **customer's order management system** and **Video Content Management System** and **Network system** using **Ruby** and **Elixir**, with **GraphQL API** and **PostgreSQL** database.
- Experienced full **software development life cycle** (SDLC) in **Analysis**, **Design**, **Development**, **Implementation**, **Testing** and **Maintenance**.
- Achieved a 32% reduction in deployment time and a 43% increase in scalability, using **Docker** and **Kubernetes** for **containerization**, deploying the **Kubernetes image** to **Google Kubernetes Engine** (**GKE**) thanks to the **Gitlab CI/CD pipeline**.

- Used **Google Cloud Functions** to implement **serverless architecture** including a **video transcoding function** that automatically transcodes newly uploaded videos, resulting in a 30% reduction in video processing time, and a **Queue event consumer** that efficiently consumes messages from a Pub/Sub queue, allowing for fast and reliable message processing.
- To manage the workflow in **Kubernetes cluster**, utilized **Argo** and implemented real-time user monitoring using **Datadog** which allowed us to track user behavior and performance metrics in real-time.
- improved system performance by implementing optimizing our database with **indexing**, and integrated **OAuth** using **Auth0** and established a **role-based access control system** to enhance security and provide more granular control over user permissions.
- In **Agile methodologies**, followed **Scrum method**, use to have the **daily scrum** meetings and **2 weeks of sprint** and used **Linear** for ticket management system.
- **Mentored** junior developers through **Pair Programming** and comprehensive **code reviews** to ensure constant team growth and the highest quality of deliverables.

Software Engineer at `AgencySmart`   Jun 2015 - Jul 2018

- Involved in **SAAS Health Insurance Platform** Development using **Ruby**, **Nodejs**, **MySQL**, **MongoDB**, **DynamoDB**.
- Effectively addressed slow load times attributed to **N+1 query issues** in API by implementing batching techniques, resulting in a 50% acceleration in data loading.
- Implemented a comprehensive suite of tests including **Unit Tests**, **Integration Tests**, and **End-to-End** (**E2E**) tests using **RSpec**, **Test::Unit**, and **Capybara** to achieve a test coverage of over 90%, ensuring high test coverage and robustness of the application, consequently enhancing the software's reliability.
- Involved in **code reviews** and utilized **Es-lint** and **RuboCop** for linting, ensuring coding standards and best practices across the development team, resulting in a 30% reduction in bugs and improved code quality.
- Managed project activities using **Jira**, creating epics, tasks, and subtasks to track progress effectively, resulting in a 20% increase in productivity and better project management.

EDUCATION

Bachelor of Science (B.Sc) - Computer Science

Kyoto University   2011 - 2015

SKILLS

- **Languages**: HTML, CSS, JavaScript, TypeScript, Ruby, Elixir, SQL,
- **Frameworks**: React, Node.js, Nest.js, Ruby on Rails, Phoenix,
- **Database**: MySQL, PostgreSQL, MongoDB, DynamoDB, Redis, Snowflake