

# Ken Hayashi

## Full Stack Engineer

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### Summary

Experienced **Full Stack Engineer** with 9 years of experience in web development, specializing in **Video Production**, **E-commerce**, and **Healthcare platform** development mostly using **React** and **Node** with knowledge of full software development life cycle using **Agile**, **Test Driven Development (TDD)** and **Behavior Driven Development (BDD)**. Proven track record in **managing** and **optimizing large-scale applications**, with a strong focus on **performance**, **scalability**, and **user experience** and **AI**. Seeking to leverage my technical expertise and passion for **problem-solving** to drive **growth** and **innovation** in a dynamic software development team.

### Experience

#### Full Stack Engineer at Videopixie

Mar 2019 - Nov 2023

- Designed and Implemented a **Microservices-based** architecture and **Event-Driven** architecture for a **Video Production platform** development using **React**, **Next.js**, **Python**, **Nestjs**, **Graphql** and **Postgresql**.
- Experienced full **software development life cycle (SDLC)** in Analysis, Design, Development, Implementation, Testing and Maintenance.
- Led the frontend development and implemented a **company design system** and **component library** using **Storybook** for future use, were able to achieve a 32% reduction in development time, resulting in a more efficient and streamlined development process.
- Migrated legacy **Ruby** code to **Nest.js**, resulting in a 13% improvement in performance and 14 % increase in maintainability.
- Achieved a 32% reduction in deployment time and a 43% increase in scalability, using **Docker** and **Kubernetes** for containerization and orchestration, deploying the services to **Google Kubernetes Engine (GKE)** thanks to the CI/CD pipeline which used **Gitlab CI** and **ArgoCD**.
- Used **Google Pub Sub** to make a communication between microservices and used **Google Cloud Functions** to implement serverless architecture including a video transcoding function and a Queue event consumer.
- Implemented **real-time user monitoring** using **Datadog** which allowed us to track user behavior and performance metrics in real-time and used **Sentry** for error tracking.
- Actively participated in **Agile development processes**, including **sprint planning**, **daily stand-ups**, and **sprint reviews** and used **Linear** as a ticket management system.
- Played a key role in **hiring** and **onboarding new team members**, mentored **junior developers** through Pair Programming and comprehensive **code reviews**, contributing to the growth and development of the engineering team.

#### Full Stack Engineer at Risamsoft

Oct 2017 - Jan 2019

- 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**, **NextJS**, **Python**.

- Collaborated with **Product Managers** to gather and analyze requirements, ensuring alignment with business goals and user needs.
- Developed a **CRM** service that integrates with **Salesforce** enables customers to efficiently manage inventories, track sales, analyze data and improve customer relationships.
- Developed modular, scalable and maintainable frontend using **micron frontend architecture** and technologies like React and Angular.
- 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.
- Improved system performance by implementing optimizing our database with **indexing** and **sharding**, and **Search Engine Optimization** using server-side rendering.
- Implemented **OAuth2** using **Auth0** and established a **role-based access control system** to enhance security and provide more granular control over user permissions.
- 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.
- Integrated with **multiple payment services** using **Adapter Pattern** for an ecommerce system involved implementing secure and seamless payment processing, ensuring compatibility with diverse payment methods.

## Software Engineer at iCARE

Jun 2015 - Jul 2017

- Involved in **Healthcare Platform Development** using **HTML, CSS, Javascript, AngularJS, PHP, and MySQL**.
- Collaborated with **cross-functional teams** to meticulously define software requirements and specifications, ensuring alignment with project goals and stakeholder needs.
- Successfully addressed slow load times attributed to **N+1 query issues** in the API by implementing efficient batching techniques, resulting in a remarkable 50% acceleration in data loading.
- Implemented a comprehensive suite of tests, encompassing **Unit Tests, Integration Tests, and End-to-End (E2E) tests** using **Jest**, and **Cypress**, achieving a test coverage of over 90% and significantly enhancing the software's reliability and robustness.
- Involved in **code reviews** and utilized **Es-lint** for linting, ensuring coding standards and **best practices** across the development team, resulting in a 30% reduction in bugs and improved code quality.
- Effectively managed project activities using **Jira**, creating epics, tasks, and subtasks to meticulously track progress, resulting in a substantial 20% increase in productivity and enhanced project management.
- Translated **Figma designs** and **wireframes** into high-quality, responsive user interfaces, ensuring **pixel-perfect** implementation and an exceptional user experience.

## EDUCATION

### Bachelor of Science (B.Sc) - Computer Science

*Kyoto University*

2011 - 2015

## SKILLS

- **Languages:** HTML, CSS, JavaScript, TypeScript, Python, PHP, SQL, GraphQL
- **Frameworks:** React, Angular, NextJS, Node.js, NestJS, FaskAPI, Laravel, Ruby on Rails, OpenAI
- **Database:** MySQL, PostgreSQL, MongoDB, DynamoDB, Redis
- **DevOps:** Docker, Kubernetes, CI/CD, Gitlab CI, Github Actions, Jenkins, Google Cloud Platform, AWS, ArgoCD