ATSUTOSHI HONDA

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Profile

Postgraduate Student with a passion for developing software that solves people's problems. Proactively work on improving products by adding new features, fixing minor bugs, and building scalable systems. I specialize in frontend improvements using React and Next.js, as well as backend development with Spring Boot, focusing on enhancing user experience and maintainability. Within the team, I actively contribute to architectural discussions, design reviews, and technology selection to improve overall development efficiency.

Education

Master of Applied Computing | Lincoln University | Lincoln, New Zealand
July 2024 – Expected November 2025

Bachelor of Engineering, Department of Computer Science |Nagoya Institute of Technology | Nagoya, Japan
April 2020 – March 2024

Key Modules Include: Computer Architecture, Digital Circuit, Operating System, Data Structures and Algorithms, Information Network, Information Security, Information Theory, Distributed System, Compiler, Image Processing, Data Science, Pattern Recognition, Signal Processing, Linear Algebra, Calculus

Experience

MARCH 2025 – CURRENT
Software Engineer Intern | Sairai Inc. | Remote, Japan

- Improved the candidate-job skill matching system by implementing asynchronous processing with asynq, reducing the wait time for individual match evaluations (previously 15 seconds) and enabling batch processing of multiple matches simultaneously.
- Contributed to feature development and system enhancements using Go for the backend and Next.js for the frontend.

SEPTEMBER 2024 – FEBURARY 2025
Software Engineer Intern | Hexabase | Remote, Japan

- Created an API that returns meeting minutes in a .txt file based on an mp4 of the meeting, using Python, Google Cloud Functions, and the Whisper API.
- Developed a Slack bot using Google Apps Script and the OpenAI API, which allows users to generate questions and answers for IT certification exams in Japan and dive deeper into explanations by asking the AI for clarifications.

AUGUST 2024 – SEPTEMBER 2024
Frontend Engineer Intern | Askul Corporation | Remote, Japan

- Worked on the modification of an e-commerce site with an annual revenue of 12.76 billion NZD, using Kotlin and TypeScript.

- Performed front-end modifications under a system structured with Clean Architecture, where the front-end was built with Thymeleaf.

SEPTEMBER 2022 – JUNE 2024
Web Developer Intern | Camellia Planner | Nagoya, Japan

- Contributed to full-stack software development proactively pursuing and implementing suitable technologies and best practices into products
- Implemented responsive design and reduced unnecessary rendering by 40% by organizing dependencies using memo and redux in multifunctional dashboard app using React.js
- Orchestrated the implementation of user login with JWT authentication and interfaces to retrieve CSV files on facility and patient information in the development of a therapy facilities management API using Spring Boot
- Proactively communicate with the boss to ensure that design errors do not occur

Projects

FEBRUARY 2023 – NOVEMBER 2023
Battery Information Retrieval and Analysis Application at Camellia Planner
Techs**:** React.js, Redux, React-Hook-Form, Spring Boot

This application retrieves battery information from the database and visualizes each battery's information in graphs and tables. I developed the entire front end and implemented the back-end information control for each user. As the scale of the product grew, rendering performance became a bottleneck, so I visualized rendering and improved performance by 40% using Redux and reviewing component dependencies.

MAY 2024 – JUNE 2024
IELTS and Interview Practice Website
Techs: Next.js, Prisma, OAuth, Gemini API

I developed a website where one can practice IELTS speaking and interview skills. The questions are created by a language-generating AI to allow for flexible situations. Since the free version of the Gemini API accepts only 60 requests per minute, the API router caches the results of queries to the API in the server component for 30 seconds to return the same question for multiple users for a certain period. In addition, users who register with a Google account can review interview questions and answers they have given in the past and write their ideal answers.

Technical Skills

React.js, Next.js
Learned the concepts of hooks and components through the internship. Additionally, in Next.js, I learned how to design APIs that take advantage of server components and improve performance by static site generations.

Spring Boot
During the internship, I implemented database operations using JdbcTemplate, and API access control and JWT authentication using Spring Security.

Other Skills
Languages: HTML, CSS, JavaScript, TypeScript, Java, Python, Go, PHP, C, C++, C#, Kotlin, SQL
Frameworks: Django, ASP.NET, Laravel
DB: MySQL, PostgreSQL
Tools: Git, GitHub, Docker
Other: Prisma, OAuth, JWT Authentication, Material UI, TailwindCSS, GraphQL