

Masaki Hikari

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SUMMARY

Ai, Full Stack Developer

Results-driven AI Fullstack Developer and Automation Specialist with 6 years of experience architecting and scaling high-performance systems. Proven expertise in intelligent agent design, voice AI, and LLM-powered applications, alongside deep proficiency in building cloud-native, microservices-based platforms. Skilled in Node.js, Django, and cloud infrastructure (AWS, Docker, Kubernetes), with a strong background in API development (RESTful & GraphQL), database optimization (PostgreSQL, MongoDB, Redis), and real-time automation. Successfully implemented compliance-focused systems, payment integrations, and global CDNs for applications handling millions of requests per day. Known for delivering high-impact solutions through Agile practices, CI/CD pipelines, and collaborative engineering.

PROFESSIONAL EXPERIENCE

CTI Engineering (Japan)

May 2019 – June 2023

Internship & Jr. Full Stack Developer

- Successfully completed the development of **Water risk management system**, delivering high-quality software solutions within tight deadlines.
- Achieved successful implementation of CDN Service by using **jsDeliver**, **Amazon S3**.
- Implemented **server-side caching** using Redis to reduce data retrieval time.
- Integrated several kinds of **third party services** such as **Stripe** and **Shufti Pro** for implementing secure convenient **payment systems** and **verify the identity** of users.
- Achieved **Search Engine Optimization** by developing **Next.js** SSR logic and built a backend with strong security capabilities using a **Django**.
- Constructed a secure backend that prevents **SQL injection** and safely stores users' profiles by following security best practices and using **TypeORM**.
- Collaborated with the senior engineer in the design architecture of the **RESTful API** service.
- Developed Polyglot Database using **PostgreSQL** and **MongoDB** and optimized database for various data types and improved performance.
- Developed a safe and reliable platform by implementing security best practices, such as implementing a strong **CSP header** and implementing Authentication and Authorization using **Auth0** in **Okta**.
- Designed and implemented a microservice-based infrastructure with **Nest.js**, enhanced flexibility and scalability.
- Set up a strong CI/CD pipeline using **Docker**, **Terraform** and **Github Actions**, while integrating ESLint, Prettier and Jest.
- Improved the database performance by implementing caching mechanism using **Redis**, indexing and **query optimization**.
- Successfully completed the development of an **AI-powered Chatbot** for helping customers, integrating **machine learning** algorithms and **NLP**.
- Integrated **prompt engineering** including technical words like **CoT**, **ZeroShot**, **FewShot** to ensure reasoning and consistent output format.

- Designed **RAG architecture** providing contexts of company's historic data using **llamaindex**, reducing hallucination in understanding and responding to user question.
 - Improved similarity score around 0.03 by using **Openai ada-2** embedding model.
 - Designed and deployed a **real-time voice agent** capable of handling customer support queries with near-human efficiency. Integrated **retrieval-augmented generation** and **multi-turn memory** for contextual intelligence.
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SKILLS

- **AI & Agent Systems:** OpenAI, Langchain, LangGraph, Vapi, ML, NLP, Voice AI, Pinecone
 - **Fullstack Development:** React, Next.js, Node.js, FastAPI, Flask, Django
 - **Databases:** PostgreSQL, MongoDB, Redis, Prisma, MySQL, Firebase, Supabase
 - **CMS & No-Code:** Strapi, Sanity, Squarespace, Bubble, Bolt, Lovable
 - **Automation & Workflow Tools:** n8n, Zapier, Make.com
 - **Cloud & Deployment:** AWS, Google Cloud, DigitalOcean, Heroku, Render, Railway, Docker, Kubernetes, Netflix
 - **Testing Frameworks:** Jest, Cypress
 - **CI/CD:** Docker, Kubernetes, Github Actions, Terraform, Jira
 - **Soft Skills:** Problem Solving, Critical Thinking, Effective Communication, Collaboration, Adaptability and Continuous learning
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EDUCATION

Osaka Institute of Technology

April 2014 - March 2018

Bachelor's Degree in Computer Science
