

# Tomohiro Komiyama

## Full Stack Developer and AI Engineer

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### Profile

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Full Stack Developer & AI Engineer with over 6 years of experience building scalable web and AI systems that enhance performance, automate workflows, and reduce operational costs. Proficient across the full development lifecycle-from front-end frameworks to backend APIs and cloud deployment-I combine software engineering best practices with AI integration to create efficient, production-ready solutions.

### Professional Experience

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<b>Full Stack and AI Developer, <i>Monaca</i></b>	08/2021 – 11/2024 Kyoto
<ul style="list-style-type: none"><li>Engineered 6 enterprise-grade web and mobile applications serving 120,000+ Kyoto users, delivering SaaS dashboards, AI-powered platforms, and analytics tools across multiple industries.</li><li>Architected an AI-driven content generation engine using OpenAI GPT-Turbo, LangChain, and Stable Diffusion 3, cutting content creation time from 3 hours to 10 minutes (85% efficiency gain).</li><li>Built and released 3 cross-platform mobile apps with React Native and Expo, reaching 50,000+ downloads and maintaining an average .8 App Store rating.</li><li>Integrated real-time databases (Firebase, Supabase) and RESTful APIs, reducing latency by 0% and server downtime by 35%.</li><li>Implemented server-side rendering and caching strategies with Next.js and Redis, improving page load speed from 3.8s to 2.1s and increasing session duration by 18%.</li><li>Automated CI/CD pipelines with GitHub Actions, Docker, and AWS ECS, achieving zero-downtime deployments and 25% faster release cycles.</li><li>Deployed machine learning models for content recommendation and user analytics using Python, FastAPI, and TensorFlow.</li><li>Collaborated with designers, data scientists, and product owners to deliver user-centered AI solutions aligned with business KPIs.</li></ul>	
<b>Frontend Developer, <i>FOURDIGIT</i></b>	08/2018 – 05/2021 Osaka, Japan
<ul style="list-style-type: none"><li>Engineered and launched 5+ enterprise-level web applications for clients in e-commerce, finance, and automotive sectors using React.js, Vue.js, and JavaScript (ES6+), driving higher client satisfaction and user engagement.</li><li>Redesigned a corporate portal serving 30,000+ daily users to meet WCAG 2.1 accessibility standards, cutting bounce rate by 27% and increasing session duration by 22%.</li><li>Integrated payment, analytics, and social media APIs with Axios, Vuex, and React Query, enabling smooth multi-channel workflows and boosting transaction success rates by 15%.</li><li>Enhanced rendering performance via code splitting, lazy loading, and asset optimization, reducing page load times by 20-30% and improving Google Lighthouse scores.</li><li>Led a Scrum team of 6 engineers and designers-organized sprint ceremonies, peer reviews, and retrospectives-raising sprint velocity by 15% while maintaining high production quality.</li><li>Mentored 3 junior developers, establishing internal React component libraries and coding standards that reduced new feature build time by 25%.</li></ul>	

- Partnered with design teams using Figma and Adobe XD, translating UI/UX wireframes into pixel-perfect, responsive interfaces across 10+ devices and browsers.

## Education

<b>Bachelor's degree in software engineering</b> , <i>Kanagawa Institute of Technology</i>	04/2013 – 09/2017 Atsugi, Kanagawa, Japan
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## Skills

<b>Frontend</b> React.js, Next.js, Vue.js, Nuxt.js, Angular.js, Svelte, Redux, Zustand, Tailwind CSS, TypeScript	<b>Backend</b> Node.js, Express.js, Nest.js, Laravel, Django, FastAPI, GraphQL, RESTful APIs
<b>Database</b> Relational Database: PostgreSQL, MySQL, Oracle Non-relational Database: MongoDB, Redis, Firebase, Azure Cosmos DB	<b>DevOps</b> AWS (EC2, Lambda, S3, ECS, CloudWatch), Google Cloud, Azure, Docker, GitHub Actions, CI/CD Pipelines, Nginx, Vercel
<b>Testing &amp; Tools</b> Jest, Cypress, Postman, Swagger, ESLint, Prettier, Webpack, Vite	

## Languages

- English
- Japanese

## Additional Highlights

<ul style="list-style-type: none"><li>• Reduced infrastructure costs by 28% through containerized microservices migration (AWS ECS).</li><li>• Recognized by Monaca (2023) for "Outstanding Technical Contribution" in AI automation.</li></ul>	<ul style="list-style-type: none"><li>• Created reusable UI libraries, cutting frontend development time by 30%.</li><li>• Open-source contributor to AI tooling libraries for NLP and computer vision.</li></ul>	<ul style="list-style-type: none"><li>• Implemented AI analytics dashboards using React and D3.js for real-time model performance tracking.</li></ul>
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