

# Work History (職務経歴書)

Date Prepared: September 25, 2025

Name: NORUL ISLAM

## CAREER SUMMARY (職務要約)

I am a skilled Software Engineer specializing in full-stack development using modern technologies such as React.js, Next.js, Node.js, TypeScript, Laravel, and JavaScript. I have end-to-end experience spanning Web application design and implementation, API development, authentication integration, CI/CD automation, and cloud infrastructure construction.

In recent years, I have focused on **Agentic AI (Autonomous Agents)** and business automation tools, developing chatbots and automated response systems leveraging Python LLMs (such as the OpenAI API). I have also built and applied multiple practical, self-developed tools, including a mail response assistance tool integrated with the Gemini API, in real-world scenarios.

My practical experience includes: integrating AI chatbots, implementing Stripe payments, reducing query count by 40% and improving response time by 120ms through GraphQL API adoption (resulting in significant UX improvement), and establishing robust DevOps foundations. I continuously strive to expand my technical breadth. With strong Japanese (JLPT N1) and English (TOEIC 810) language skills, I have extensive experience collaborating in global development environments, emphasizing a development style that balances speed and quality.

Moving forward, I intend to fully shift my career toward the development of business automation and intelligent agents using AI technology, aiming to leverage technical leadership to contribute to the next generation of product development.

## APPLICABLE EXPERIENCE, KNOWLEDGE, AND SKILLS (活かせる経験・知識・技術)

- Experience in architectural design and development of scalable, responsive front-end applications and reusable component libraries using React.js, Next.js, and TypeScript.
- Extensive experience in designing, building, and maintaining robust and high-performance backend systems and APIs using Node.js and Laravel.
- Experience in automating and operating CI/CD pipelines using Docker, GitHub Actions, and cloud infrastructure like AWS to streamline deployment and testing.
- Experience in developing and implementing business automation tools and autonomous AI agents using LLMs such as the OpenAI API and Gemini API.
- Extensive experience leading projects and collaborating in multilingual, global teams,

leveraging Japanese (N1) and English (TOEIC 810) proficiency.

WORK EXPERIENCE (職務経歴)

Company	Yotsuba System Development Co., Ltd. (四葉システム開発株式会社)	Employment Type	Full-time Employee
Business Content	Business System Development (B2B Contract Development)	Company Size	30 employees (Unlisted)
Period	January 2024 – Present / Senior System Engineer	Team Size	5 members
Project Summary	Focused on modifications and new feature additions to the in-house business support system, handling both backend (PHP/Laravel) and frontend (JavaScript) development.		
Phases in Charge	Design, Development, Testing, Operations & Maintenance		
Job Duties	<ul style="list-style-type: none"><li>- Expansion of existing features and bug fixes using Laravel.</li><li>- UI improvement for business screens using</li></ul>		

	<p>Blade templates and JavaScript.</p> <ul style="list-style-type: none"> <li>- Developed and implemented an in-house business automation tool using JS/PHP + Docker, reducing 200 hours of monthly manual work (cutting man-hours by over 30%).</li> <li>- Automated CI/CD pipelines with GitHub Actions + Docker, reducing deployment time from 45 minutes to 8 minutes.</li> <li>- Conducted design and code reviews with team members.</li> </ul>		
<b>Technologies Used</b>	<p><b>Languages:</b> PHP, JavaScript, C#;</p> <p><b>Frameworks:</b> Laravel, React.js, Next.js;</p> <p><b>Infra/DevOps:</b> Docker, GitHub Actions</p>		

<b>Company</b>	<b>ETAfire (Bangladesh / Based in Japan)</b>	<b>Employment Type</b>	<b>Contract Employee (Remote)</b>
Business Content	Web Application Development for Overseas Clients	Role	Tech Lead (Contract/Part-time , approx. 30

			hours/week)
Period	April 2021 – December 2023	Team Size	3 members
<b>Project Summary</b>	<p>Development of Web services in the Education and E-commerce sectors.</p> <p>Cross-functional responsibility for frontend, backend, and infrastructure, leading tasks from architecture design to implementation and operation. Built a modern development foundation centered on React, Next.js, Node.js, and AWS.</p>		
<b>Phases in Charge</b>	<p>Requirements Definition, Architecture Design, Screen Design, Implementation, Code Review, CI/CD Environment Setup, Infrastructure Operations</p>		
<b>Job Duties</b>	<p>- Designed reusable React/Next.js component libraries, improving development</p>		

	<p>efficiency by 25%. Introduced E2E testing, reducing the bug rate by 15%.</p> <ul style="list-style-type: none"><li>- Implemented Firebase authentication and external API integration, establishing a secure and highly scalable authentication base.</li><li>- Designed and implemented backend APIs using Node.js and MySQL, optimizing performance.</li><li>- Established infrastructure on AWS (EC2, S3, RDS) and implemented container operations using Docker.</li><li>- Developed CI/CD pipelines with GitHub Actions to achieve deployment automation.</li><li>- Led a team of 3 engineers, responsible for code reviews, technology selection, and progress management.</li></ul>		
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Technologies Used	React.js, Next.js, Tailwind CSS, Node.js, MySQL, Firebase, AWS (EC2, S3, RDS), Docker, GitHub Actions		
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## PORTFOLIO / PERSONAL PROJECTS (ポートフォリオ / 個人開発)

- **Multi-Agent AI System** (Automated Web app generation by Planner, Architect, and Coder agents)
  - *Live Demo:* [https://huggingface.co/spaces/Jewelr16/Create\\_new\\_project](https://huggingface.co/spaces/Jewelr16/Create_new_project)
- **AI Cold Email Generator** (Automatic response generation from job descriptions)
  - *Live Demo:* <https://huggingface.co/spaces/Norul-islam/COLD-EMAIL-GENERATOR>
- **Document Summary App** (PDF summarization AI tool)
  - *Live Demo:* <https://money-forward-app.vercel.app/>
- **Full-Stack Microservice Development** (Scalable and robust architecture)
  - *GitHub:* <https://github.com/NORULISLAM/Micro-services>
- **Corporate Web Development & Deployment** (Corporate site construction)
  - *Case Study:* <https://yotsuba-system.co.jp/>
- Developed a Multi-Agent Automated Response System using OpenAI + Gemini API, reducing email response time by 80% and automating an average of 25 daily processes.
- Also developed a chat assistance tool that suggests reply candidates based on the user's conversation.

## AI / LLM & MACHINE LEARNING (AI/LLM・機械学習)

- **LLM/Frameworks:** OpenAI API, Gemini API, Groq, LangChain, LangGraph
- **RAG/Vector DB:** ChromaDB, FAISS
- **Machine Learning:** PyTorch, TensorFlow, scikit-learn
- **Data Processing:** pandas, NumPy, matplotlib

## TECHNICAL SKILLS (テクニカルスキル)

Category	Skill Name	Usage Period / Level
Language	HTML / CSS	10 Years / Capable of UI design and responsive adaptation

Language	JavaScript	7 Years / Capable of writing and modifying optimal code
Language	React.js / Next.js	5 Years / Capable of writing and modifying optimal code
Language	TypeScript	4 Years / Capable of writing and modifying optimal code
Language	Python	4 Years / Capable of data processing and Web application development
Language	C# / C++	2 Years / Capable of writing code and designing logic
Backend	Node.js / Express.js / Django / Laravel / FastAPI / GraphQL / REST	3-4 Years Each / Experienced in API construction and authentication processing
DB	PostgreSQL / MySQL / MongoDB / Prisma / Redis / Mongoose	3-4 Years Each / Capable of data modeling and manipulation
Auth / Security	Firebase Auth / JWT / Session Management	4-5 Years Each
Infra / DevOps	Docker / AWS (EC2/S3) / GitHub Actions / Vercel / Render / Netlify / Railway / Uvicorn / Heroku	3-4 Years Each
Mobile Dev	ReactNative (iOS/Android)	Experience in basic feature development / PoC implemented
Testing	Jest, Vitest, pytest	3-4 Years Each
AI / LLM ML	API/Gemini	Practical experience

	API/Groq/LangChain/Lang Graph, RAG: ChromaDB/FAISS, PyTorch/TensorFlow/scikit-learn, pandas/NumPy/Matplotlib	through personal development projects in data processing and machine learning model construction
Other	Git/GitHub/Postman/VS Code/VisualStudio/PyCharm/Cursor/Stripe/Selenium/Gradio/Streamlit/GSAP/shadcn/ui/BasicPrompt Engineering	Experience in practical use or personal development

SELF-PROMOTION (自己PR)

I am a versatile full-stack engineer capable of handling front-end, back-end, and mobile applications. I am proficient in technologies such as React, Next.js, Node.js, TypeScript, Django, Laravel, and React Native, allowing me to deliver optimal UI/UX for both desktop and mobile platforms.

I have successfully leveraged AWS, Docker, and GitHub Actions to build cloud infrastructure and automate CI/CD pipelines, resulting in a development speed increase of over 20%. Furthermore, I developed in-house business automation tools, cutting operational man-hours by more than 30%.

In the AI domain, I built a RAG-based AI chatbot combining LangChain and OpenAI, improving the answer accuracy from an F1 score of 0.72 to 0.85. I have practical experience with modern technologies like Stripe payment integration, Firebase authentication, GraphQL, Prisma, and Redis, and I constantly strive to stay current with the latest technology trends. I actively promote quality improvement by introducing testing using Vitest and Jest.

I contribute to the overall technical advancement of the team through code reviews and technical support for junior members. My future goal is to support project success both through team development and product quality as a technical leader. I have a strong interest in developing AI agents using Python that can autonomously execute tasks and building intelligent business automation tools, which I intend to merge with my existing development skills to lead the next generation of product development.

Even before starting my professional career, during my student days, I undertook personal Web development projects for international clients through platforms like Freelancer.com and Fiverr. This experience allowed me to quickly cultivate not only technical skills but also the communication ability to accurately grasp customer requirements and the sense of



