Nguyen Duc Hien

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PROFESSIONAL SUMMARY

Fullstack Engineer (React / NestJS) | Evolving into Al-Augmented Development

- 3+ years building production systems recently transformed my workflow by mastering AI orchestration to 10x productivity while maintaining code quality.
- Solid foundation: 3 years hands-on development (client projects → in-house products → solo full-stack systems)
- Recent evolution (2025): Transitioned from traditional coding to Al-orchestrated development now architect systems and delegate implementation to Al tools
- Proven track record: Delivered 2 complete products in 2025 (Chrome extensions \rightarrow microservices \rightarrow GCP backends) with significantly reduced timeline.

Technical strengths: System architecture, React/NestJS ecosystems, GCP deployment, and increasingly — prompt engineering & AI workflow optimization.

Currently exploring: How Al-native developers can reshape product development speed.

PROJECTS

Sale hunter

(7/2025 - 10/2025)

Customer	
Description	 Chrome extension + backend suite automating e-commerce price tracking and alerts. Developed with the support of AI coding agents to accelerate system design and implementation. Impact: Automated price monitoring workflow, removing the need for manual daily checks and enabling instant discount notifications.
Team size	1
My position	Fullstack Developer, PM, Technical Lead, Devops
My responsibilities	 Designed end-to-end architecture (Extension ↔ NestJS ↔ PostgreSQL ↔ Graphile Worker). Built intelligent price extraction system: orchestrated Gemini AI to analyze DOM structure + user's previous variant selections → generate dynamic Playwright actions → extract accurate prices across different e-commerce layouts. Accelerated development using Cursor for boilerplate (CRUD, DTOs, migrations) while focusing on core challenges: AI-DOM interpretation logic, concurrency control, and price history tracking. Implemented watchlist domain with CASL-powered authorization. Integrated Brevo transactional emails for price drop alerts.
Technologies used	React 19, Plasmo MV3, NestJS 11, PostgreSQL, Graphile Worker, Playwright, Brevo.

Guide maker

(7/2025 - 10/2025)

Customer	
Description	 Browser extension + backend system that records user actions and automatically generates step-by-step guides (screenshots, descriptions, and HTML exports). Developed with AI coding agents to accelerate system design and implementation, while the final logic remains rule-based and deterministic. Impact: Automated documentation workflow, saving manual recording time and improving product knowledge base.
Team size	1
My position	Fullstack Developer, PM, Technical Lead, Devops
My responsibilities	 Designed full microservice architecture connecting Chrome extension with Go backend services. Leveraged AI-assisted development to speed up implementation while maintaining focus on service integration, security (Signed URLs, IAM), and deployment architecture. Built video microservice (Cloud Run + FFmpeg) for real-time MP4/GIF conversion. Implemented step management: create/update/delete, drag-to-reorder, and attach/replace step screenshots; automated HTML export.
Technologies used	React 19, TailwindCSS 4, Go 1.24+, FFmpeg, Docker, GCP (Cloud Run, Cloud Functions Gen2, GCS, IAM, Cloud Build).

Web diff system (2/2024 - 2/2025)

Customer	_
Description	Internal QA automation platform that detects and visualizes UI changes after deployments. Designed to automate regression testing and streamline quality assurance across product releases.
	Impact: Reduced manual UI verification workload and improved deployment reliability.
Team size	3
My position	Fullstack Developer, PM, Devops
My responsibilities	 Led a 3-member team to develop and maintain the web-based comparison tool. Implemented screenshot and diff comparison engine, integrated with RxJS job queue. Added Stripe payment integration and webhook syncing for internal usage tracking. Deployed backend on GCP (Cloud Run & Functions) with Docker-based CI/CD pipelines.
Technologies used	Next.js 15, React 19, Go, RxJS, Stripe, Docker, GCP (Cloud Run, Cloud Functions), Playwright.

A****.jp

(10/2022 - 02/2024)

Customer	A****.jp
Description	- Japanese gifting platform allowing users to design, customize, and send personalized gifts online. Impact: Enhanced user experience and product reliability, supporting thousands of Japanese users and increasing customer retention.
Team size	10
My position	Front-end Developer
My responsibilities	- Designed and optimized the canvas-based design editor (text/image CRUD, layout properties, drag & drop) Built chat with infinite scroll Improved Next.js performance via Webpack optimization and image compression Implemented Cypress end-to-end tests for production stability.

WORK EXPERIENCE

Oct 2022 - Present

Corize Inc.

Fullstack Developer

Client Projects (2022 - 2023)

- Developed a custom design editor for a gifting platform (canvas CRUD, dragand-drop, real-time chat).
- Optimized Next.js builds with Webpack, improving page load times.
- Converted Figma to responsive landing pages, implemented asset optimization (WebP, caching).
- Delivered end-to-end Cypress tests and automated QA scripts.
- Collaborated directly with Japanese clients, gathered requirements, and iterated on UX.

In-house Products (2024 - Present)

- Led development of the Web Diff System: detects UI changes after deployments, integrated Stripe payments, automated regression testing with Go and RxJS.
- Built the Guide Maker System: Chrome extension + Go microservices for recording user flows, video/GIF streaming, and secure GCS uploads with Signed URLs.
- Designed cloud architecture with Docker, Cloud Run, Cloud Functions, GCS, IAM; set up CI/CD pipelines with Cloud Build.
- Maintained performance & reliability: Clinic.js profiling, IndexedDB store, logging/error tracking, automated deployment.
- Prepared and delivered technical seminars to the outsourcing team, creating slide decks and sharing knowledge on system architecture, cloud deployment, and development best practices.

SKILLS

Language	- English - Japanese
Technical Skills	 - Technical Skills: React 19, Next.js 15, NestJS 11, Go, TypeScript, PostgreSQL, Graphile Worker, Docker, GCP (Cloud Run, Cloud Functions, IAM, GCS), Playwright, Cypress. - AI & Automation Workflow: Cursor, ChatGPT, Gemini Studio, PromptManager, pgvector / Supabase RAG pipeline, Brevo automation, RxJS job orchestration. - DevOps & Tools: Stripe, SendGrid, GA4, GTM, WordPress, Brevo, Cloud Build CI/CD, CircleCI.
Soft Skills	Cross-cultural collaborationProblem solvingLeadership in small teams

CERTIFICATIONS

12/2024	JLPT N3
8/2024	Hackerrank Node (Basic) Certificate

8/2024	Hackerrank JavaScript (Basic) Certificate
8/2024	Hackerrank React (Basic) Certificate
8/2024	Hackerrank Frontend Developer (React) Certificate
2/2022	B1 English level (CEFR)
11/2021	B2 Japanese level (CEFR)

EDUCATION

Hue University of Foreign LanguagesMajor: Language and Culture of Japanese Oct 2018 - May 2022

GPA: 3.12/4

REFERENCES

Available upon request.

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