

# Nguyen Duc Hien

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## PROFESSIONAL SUMMARY

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Fullstack Engineer (React / NestJS) | Evolving into AI-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 AI-orchestrated development — now architect systems and delegate implementation to AI tools
- Proven track record: Delivered 2 complete products in 2025 (Chrome extensions → microservices → 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 AI-native developers can reshape product development speed.

## PROJECTS

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### Sale hunter

(9/2025 - present)

Customer	—
Description	<ul style="list-style-type: none"><li>- Chrome extension + backend suite automating e-commerce price tracking and alerts.</li><li>- Developed with the support of AI coding agents to accelerate system design and implementation.</li></ul> <p>Impact: Automated price monitoring workflow, removing the need for manual daily checks.</p>
Team size	1
My position	Fullstack Developer, PM, Technical Lead, Devops
My responsibilities	<ul style="list-style-type: none"><li>- Designed end-to-end architecture (Extension ↔ NestJS ↔ PostgreSQL ↔ Graphile Worker).</li><li>- 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.</li><li>- Accelerated development using Cursor for boilerplate (CRUD, DTOs, migrations) while focusing on core challenges: AI-DOM interpretation logic, concurrency control, and price history tracking.</li><li>- Implemented watchlist domain with CASL-powered authorization.</li><li>- Integrated Brevo transactional emails for price drop alerts.</li></ul>
Technologies used	React 19, Plasmo MV3, NestJS 11, PostgreSQL, Graphile Worker, Playwright, Brevo.

## Guide maker

(7/2025 - 10/2025)

<b>Customer</b>	—
<b>Description</b>	<ul style="list-style-type: none"><li>- Browser extension + backend system that records user actions and automatically generates step-by-step guides (screenshots, descriptions, and HTML exports).</li><li>- Developed with AI coding agents to accelerate system design and implementation, while the final logic remains rule-based and deterministic.</li></ul> <p>Impact: Automated documentation workflow, saving manual recording time and improving product knowledge base.</p>
<b>Team size</b>	1
<b>My position</b>	Fullstack Developer, PM, Technical Lead, Devops
<b>My responsibilities</b>	<ul style="list-style-type: none"><li>- Designed full microservice architecture connecting Chrome extension with Go backend services.</li><li>- Leveraged AI-assisted development to speed up implementation while maintaining focus on service integration, security (Signed URLs, IAM), and deployment architecture.</li><li>- Built video microservice (Cloud Run + FFmpeg) for real-time MP4/GIF conversion.</li><li>- Implemented step management: create/update/delete, drag-to-reorder, and attach/replace step screenshots; automated HTML export.</li></ul>
<b>Technologies used</b>	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)

<b>Customer</b>	—
<b>Description</b>	<ul style="list-style-type: none"><li>- Internal QA automation platform that detects and visualizes UI changes after deployments.</li><li>- Designed to automate regression testing and streamline quality assurance across product releases.</li></ul> <p>Impact: Reduced manual UI verification workload and improved deployment reliability.</p>
<b>Team size</b>	3
<b>My position</b>	Fullstack Developer, PM, Devops
<b>My responsibilities</b>	<ul style="list-style-type: none"><li>- Led a 3-member team to develop and maintain the web-based comparison tool.</li><li>- Implemented screenshot and diff comparison engine, integrated with RxJS job queue.</li><li>- Added Stripe payment integration and webhook syncing for internal usage tracking.</li><li>- Deployed backend on GCP (Cloud Run &amp; Functions) with Docker-based CI/CD pipelines.</li></ul>
<b>Technologies used</b>	Next.js 15, React 19, Go, RxJS, Stripe, Docker, GCP (Cloud Run, Cloud Functions), Playwright.

## A\*\*\*\*\*.jp

(10/2022 - 02/2024)

<b>Customer</b>	A*****.jp
<b>Description</b>	<ul style="list-style-type: none"><li>- Japanese gifting platform allowing users to design, customize, and send personalized gifts online.</li></ul> <p>Impact: Enhanced user experience and product reliability, supporting thousands of Japanese users and increasing customer retention.</p>
<b>Team size</b>	10
<b>My position</b>	Front-end Developer
<b>My responsibilities</b>	<ul style="list-style-type: none"><li>- Designed and optimized the canvas-based design editor (text/image CRUD, layout properties, drag &amp; drop).</li><li>- Built chat with infinite scroll.</li><li>- Improved Next.js performance via Webpack optimization and image compression.</li><li>- Implemented Cypress end-to-end tests for production stability.</li></ul>

## Technologies used

Next.js 12, React 18, NestJS, TypeScript, Redux Toolkit, Fabric.js, Cypress, AWS S3, MySQL.

## WORK EXPERIENCE

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Oct 2022 - Present

### Corize Inc.

Fullstack Developer

#### *Client Projects (2022 – 2023)*

- Developed a custom design editor for a gifting platform (canvas CRUD, drag-and-drop, chatbox).
- 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 Nodejs and RxJS.
- Built the Guide Maker System: Chrome extension and IndexedDB store + Go microservices for video/GIF creating, 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, 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

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### 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 collaboration
- Problem solving
- Leadership in small teams

## CERTIFICATIONS

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12/2024

JLPT N3

8/2024

Hackerrank Node (Basic) Certificate

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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)

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## EDUCATION

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Oct 2018 - May 2022	<b>Hue University of Foreign Languages</b> Major: Language and Culture of Japanese GPA: 3.12/4
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## REFERENCES

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Available upon request.