Nguyen Duc Hien

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PROFESSIONAL SUMMARY

AI-Native Fullstack Engineer (React / NestJS / Go) with 3+ years of experience designing and building autonomous systems inside research-driven product teams.

Focused on creating AI-augmented development pipelines, agent-driven automation, and self-maintaining cloud backends using GCP, Heroku and modern TypeScript ecosystems.

Experienced in orchestrating complex multi-service architectures — from Chrome extensions to distributed backend jobs — while leveraging AI tools (Cursor, ChatGPT, Gemini Studio) to accelerate coding, testing, and deployment.

Passionate about turning experimental prototypes into reliable, production-grade systems that ship fast, scale cleanly, and evolve intelligently.

Blog: https://hiennguyen.io/en/blog/post/dev-ai-orchestrator — "When a Dev Knows How to Use AI"

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). - Implemented watchlist domain, price history tracking, and CASL-powered authorization. - Built Playwright crawler (JSON-LD parsing, concurrency control) and Integrated Brevo transactional emails.
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 architecture connecting Chrome extension (MV3 APIs) with Go backend services. - Built video microservice (Cloud Run + FFmpeg) for real-time MP4/GIF conversion. - Implemented secure upload service (Cloud Functions Gen2, Signed URLs, IAM). - 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.
Technologies used	Next.js 12, React 18, NestJS, TypeScript, Redux Toolkit, Fabric.js, Cypress, AWS S3, MySQL.

WORK EXPERIENCE

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, 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 collaboration - Problem solving - Leadership 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

Oct 2018 - May 2022   **Hue University of Foreign Languages**
Major: Language and Culture of Japanese
GPA: 3.12/4

REFERENCES

Available upon request.