

Tony Duong

Software Engineer · Backend / Full-Stack

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Full-stack engineer with **~8 years** building web applications end-to-end — **Ruby on Rails** backends, **React/Next.js** frontends, and the **AWS** infrastructure underneath. Comfortable shipping in **English, French, and Japanese**.

01. Experience

Software Engineer • Backend • Spacely

~2023 – Present

Tokyo, Japan

Backend team for an AI-driven image-processing product (panorama enhancement, generative editing for real-estate imagery).

- ▶ Owned several AI image features end-to-end — generative content removal/placement and an AI contextual chat — building the CRUD APIs, file-attachment handling, and technical specs.
- ▶ Re-architected the panorama-enhancement pipeline from a Lambda CPU setup to an ECS GPU setup to meet response-time requirements.
- ▶ Cut a slow cubemap-conversion job from ~2 minutes to ~10 seconds by optimizing the save flow and reworking the existing architecture — which brought overall processing of 50 images down from ~12 minutes to under 2 minutes.
- ▶ Resolved a production deadlock affecting the main web app.
- ▶ Organized ~120 Datadog monitors (consistent naming, ownership tags, ANOMALY/LATENCY categories) and added per-job error alerting; revamped SLO/SLI dashboards for accurate health reporting.
- ▶ Contributed to driving Honeybadger alerts down from ~9k to ~200 (window of two weeks) in four months by clearing a backlog of recurring exceptions.
- ▶ Built funnel/observability analytics on BigQuery and set up Claude Code GitHub Actions to auto-review Dependabot PRs.
- ▶ Perform safe weekly dependency upgrades — including the Rails 7.1 → 7.2 migration — resolving breaking changes, consulting changelogs, and running regression tests.
- ▶ Develop features day to day using spec-driven development (SDD).
- ▶ Initiated the migration and centralization of technical documentation from Qiita to Notion — where it's far more searchable and live collaboration became possible.
- ▶ Improved team process: introduced a round-robin PR-review rotation and onboarding paths; mentored teammates through pairing and code review.

Ruby on Rails

PostgreSQL

AWS (ECS, Lambda, S3, CloudFront)

Datadog

BigQuery

GitHub Actions

Software Engineer (Consulting) • Monstarlab

~2022 – 2023

Tokyo, Japan

Global digital consultancy delivering client web applications across varied stacks and domains.

- ▶ Joined to broaden across clients, stacks, and problem domains after several years inside single-product teams.
- ▶ Delivered backend and full-stack work on client engagements, leaning on prior Rails and AWS experience to ramp quickly.

Ruby on Rails

AWS

TypeScript

PostgreSQL

Software Engineer • Overflow

~2020 – 2022 (~2.5 yrs)

Ebisu, Tokyo, Japan

First full-time engineer at a startup building Offers, a job-matching platform for engineers and designers.

- ▶ Helped build Offers, a job-matching platform for engineers and designers, working day to day with product managers and designers to take features from idea to ship.
- ▶ Built a Slack integration that notified recruiters and job seekers in real time when a matching position came up.
- ▶ Worked on Offers Magazine, a digital engineering-and-design magazine: built the frontend in Vue.js from designer hand-offs (often HTML/CSS) wired to real data, and got hands-on with AWS CloudFront, WAF, and S3 plus a WordPress headless-CMS backend.
- ▶ Built a performant analytics tool on AWS Redshift, aggregating and extracting analytical data through complex SQL queries.
- ▶ Started out following the senior engineer's lead and quickly grew into an engineer who proposed solutions and designed new features, not just implemented them.
- ▶ Operated day to day in Japanese — spoken and written — making clear written communication a core strength; used Datadog and New Relic for observability.
- ▶ Promoted within the first year and recognized as a roughly top-5% performer; grew from shipping fast to shipping well under a strong mentor.

Ruby on Rails

Vue.js

GraphQL

AWS (CloudFront, WAF, S3, Redshift)

Datadog

New Relic

Software Engineer • Seido

2018 – ~2020

Tokyo, Japan

Sole developer at a seven-person e-commerce business (Japanese martial-arts gear), building internal tooling from scratch.

- ▶ Built a shipment system integrating the Shopify API with DHL, Japan Post, and FedEx, plus a parcel-tracking dashboard that normalized each carrier's API into one view.
- ▶ Wrote accounting/revenue and tax-declaration tooling, Google Apps Script automations for the order pipeline, and Tampermonkey scripts to patch third-party UIs.
- ▶ Shipped daily on Rails + PostgreSQL on Heroku as a one-person engineering team — then used the tools in the warehouse myself, which Jordy (CEO) credited with measurably moving the company's productivity forward.

Ruby on Rails PostgreSQL Heroku Shopify API Google Apps Script

Software Engineering Intern (VR) • Summit Tech

2017 – 2018 (4 mo)

Montreal, Canada

Telecoms company; master's internship.

- ▶ Built a Unity VR game prototype integrating the company's internal video-call APIs, shipped as a client-facing demo alongside their telecoms platform.

Unity C#

02. Projects

Shirimono

Japanese-learning app, rebuilt from scratch and shipped on the App Store. AI-generated exercises (Claude Skills), Vertex AI TTS audio, a JLPT N2 course, public multi-locale resource pages, and CloudFront-served assets. Migrated the backend from Render to a single Hetzner VPS with Kamal, saving ~\$60/month.

Ruby on Rails PostgreSQL Kamal Hetzner Vertex AI Claude

This site — blog + digital clone

A trilingual (fr/en/ja) Next.js 16 blog with a streaming Claude chat grounded in the site's content, a real-time ActionCable chat, and an automated translation pipeline (Claude Code + GitHub Actions) that translates new English posts into French and Japanese.

Next.js 16 TypeScript Tailwind CSS v4 Claude Rails ActionCable

rails-openapi-generator

A Rails gem that generates complete OpenAPI documentation from source code, with first-class integration for the rails_param library. Built spec-first with spec-kit.

Ruby

Rails

OpenAPI

Axie Infinity gene overlay (earlier)

A Tampermonkey extension that pulled each Axie's genes from the API and overlaid them on marketplace listings the site didn't expose. Shared in the game's Discord, it hit hundreds of downloads a day and ~\$30/day at peak via a one-time Stripe unlock.

JavaScript

Tampermonkey

Stripe

03. Skills

Backend

Ruby on Rails · Ruby · Node.js · Python · GraphQL · REST APIs

Data

PostgreSQL · MySQL · Redis · Redshift · BigQuery

Observability

Datadog · New Relic · Honeybadger

Practices

CI/CD (GitHub Actions) · TDD / RSpec · Code review · i18n

Frontend

React · Next.js · Vue.js · TypeScript · JavaScript · Tailwind CSS

Cloud & Infra

AWS (ECS, Lambda, S3, CloudFront, RDS, Route 53, IAM) · Docker · Kamal · Heroku · Vercel

AI & Tooling

Claude / Claude Code · MCP · Vertex AI · RAG · Spec-driven development

04. Education

UTBM (France) • ÉTS Montréal (Canada)

Engineering double degree — Computer / Software Engineering (Master's level)

2016 – 2018 • Belfort, France • Montreal, Canada

05. Certifications

AWS Certified Solutions Architect – Professional

Amazon Web Services • Aug 2023

[Credly View credential →](#)

AWS Certified DevOps Engineer – Professional

Amazon Web Services • Nov 2023

[Credly View credential →](#)

AWS Certified CloudOps Engineer – Associate

Amazon Web Services • Apr 2026

[Credly View credential →](#)

AWS Certified Data Engineer – Associate

Amazon Web Services • Aug 2024

[Credly View credential →](#)

AWS Certified AI Practitioner (Early Adopter)

Amazon Web Services • Aug 2024

[Credly View credential →](#)

AWS Certified SysOps Administrator – Associate

Amazon Web Services • Apr 2023

[Credly View credential →](#)

AWS Certified Developer – Associate

Amazon Web Services • Mar 2023

[Credly View credential →](#)

AWS Certified Solutions Architect – Associate

Amazon Web Services • Feb 2023

[Credly View credential →](#)

HashiCorp Certified: Terraform Associate (003)

HashiCorp • Aug 2023

[Credly View credential →](#)

06. Languages

French Native

English Fluent

Japanese Business (working in Japanese daily since 2018)

AWS Certified Cloud Practitioner (CLF-C01)

Amazon Web Services · Dec 2022

Credly [View credential](#) →