

Benjamin Vasseur

Full-Stack Software Engineer

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Korean F-2 Visa (long-term resident)

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PROFILE

Full-stack software engineer with 14+ years of experience building production web applications, REST APIs, and microservices across Node.js, React, and Python, recently extending into LLM API integration. Proven track record designing and scaling systems for regulated and institutional clients, including FDA-cleared medical AI and public-sector financial software, with a focus on API design, third-party integrations, and cloud deployment on AWS and Kubernetes. Experienced owning code review and architecture decisions while collaborating with globally distributed teams across time zones.

EXPERIENCE

LVIS Corp, Seoul — Software Engineer

August 2024 – September 2025

- Contributed to NeuroMatch, LVIS's FDA-cleared cloud-based EEG analysis platform built with Vue.js, which leverages AI to detect seizures and other neurological events for clinical use in the US and Korea.
- Maintained the company's WordPress (PHP) website and prototyped an initial user management module in PHP, then drove the full rebuild as a Vue.js admin and team management application with payment integrations (Stripe, KG Inicis).
- Implemented canvas rendering for the EEG amplitude heatmap, increasing rendering speed from 3–4 FPS to a stable 60 FPS (20x faster).
- Worked closely with the US team to align development efforts and ensure seamless collaboration across time zones.

Lunit, Seoul — Front-End Developer

December 2021 – December 2023

- Developed Lunit SCOPE, a platform to detect cancer cells from whole slide images using AI, supporting pathologists across a globally deployed medical AI product line with TypeScript, React.js, WebGL.
- Collaborated closely with ML and backend engineering teams to integrate AI inference pipelines into the diagnostic platform, ensuring accuracy and reliability for FDA-regulated medical use.
- Optimized rendering time by 50% when displaying 5GB whole-slide images containing millions of cells, using WebWorkers.
- Architected a monorepo environment using Nx and Turborepo to manage shared Design System libraries and applications, reducing code redundancy across the platform.
- Enhanced testing and deployment processes with CI/CD, Cypress and Vercel.

Global Coach Group, Seoul — Full-Stack Lead Developer

February 2019 – December 2021

- Designed and built a standalone Node.js/Express microservice for on-demand PDF report generation, owned end to end: an asynchronous job queue, REST integration pulling data from two upstream services (user accounts and the core coaching-process app), server-side aggregation (averages, min/max) feeding generated charts, PDF rendering, AWS S3 storage, and Lokalise localization of report content.
- Promoted from front-end developer to lead after one year, taking over technical leadership when the previous lead departed.
- Owned technical direction across the platform's backend (Django API and Node.js services), defining REST API and database (MariaDB) structure, setting specifications, and driving architectural decisions for a system serving Fortune 500 clients (Microsoft, IBM, LinkedIn, GE) across 6 continents.
- Led a team of 3 (2 frontend, 1 backend) in Agile/Scrum, owning code review, pull-request and quality standards, and release planning.
- Managed AWS/Kubernetes deployment and infrastructure operations for the platform.
- Managed the UI localization pipeline for 13 languages via Lokalise, coordinating with external partners for content accuracy.

3i Inc., Seoul — Full-Stack Developer

June 2015 – February 2019

- Spanned the company's shift from a web agency (custom Drupal/PHP modules and WordPress for Korean university library clients) to a SaaS product, including more than a year as a Node.js/Express backend developer on the 3D/VR content platform.
- Built real-time collaboration with WebSockets on the Node.js/Express backend, enabling multiple users to edit content simultaneously.
- Implemented authentication and role-based access control with Express across the platform.
- Worked across MySQL, MongoDB, and Redis for storage, caching, and session management.

Faire Savoir, Lille — Full-Stack Developer

May 2014 – May 2015

- Built public-facing tourism websites with Drupal end to end, from CMS configuration and theming to booking/reservation features and client-facing admin dashboards.

Élap, Lille — Developer

September 2011 – May 2014

- Developed and maintained financial software for public-sector organizations under strict regulatory and accuracy requirements, building features for expense and stock management, automated receipt processing, and invoice generation.

PROJECTS

Korean Anki Miner — Personal Project (github.com/benvasseur/korean-anki-miner), 2026

- Built a Chrome extension that converts Korean YouTube subtitles into Anki flashcards, integrating the Anthropic Claude API for on-demand AI enrichment (dictionary forms, refined glosses, example sentences, related expressions) and the Papago API for real-time word translation.
- Designed a privilege-separated architecture in which all secrets and network calls are isolated to a background service worker, keeping API keys out of the page context so a compromised host page cannot access them.
- Abstracted translation and AI enrichment behind pluggable provider interfaces with cost-aware routing (a lightweight translation API for frequent calls, the LLM reserved for on-demand enrichment) plus response caching to reduce latency and API cost.
- Implemented in TypeScript and Vue 3 on the WXT (Manifest V3) framework, with type-safe persistent storage and a Shadow DOM overlay isolated from the host page's styles and scripts.

Portfolio Website — Personal Project (benjaminvasseur.dev), 2026

- Designed and built a personal portfolio site with Next.js and Tailwind CSS, hosted on Netlify.

EDUCATION

Université Lille 1, France — DUT Informatique, 2011

- 2-year university degree in Computer Science.
- Complemented by 14+ years of professional software engineering experience.

SKILLS

- **Front-End:** TypeScript, React.js, Next.js, Vue.js, Vite, AngularJS, WebGL, Jotai, Pinia, Vuex, CSS, Tailwind
- **Back-End:** Node.js, Express, Python, Django, PHP, REST API design, Microservices, LLM API integration
- **Auth & Security:** JWT, session-based authentication, role-based access control
- **Testing:** Cypress, Jest, Unit Testing, End-to-End Testing, CI/CD
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Linux, Git, GitHub, Vercel, Sentry
- **Methodologies:** Agile, Scrum, Code Review, Software Development Lifecycle, Object-Oriented Programming
- **Database:** MySQL, MariaDB, MongoDB, Redis, PostgreSQL
- **Other Tools:** Jira, Figma, Stripe
- **Languages:** Native French, Fluent English, Conversational Korean (TOPIK 2)