

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 cloud-based web applications, REST APIs, and microservices. Proven track record architecting distributed systems on AWS and Kubernetes, leading cross-functional teams, and delivering high-performance solutions for regulated industries including medical AI and financial software. Experienced in Agile delivery and collaborating with globally distributed teams across time zones.

EXPERIENCE

LVIS Corp, Seoul — Front-End Developer

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

- Led backend development as the primary architect of the platform's Django / Django REST Framework API, designing 30+ REST endpoints backed by MariaDB and serving Fortune 500 clients (Microsoft, IBM, LinkedIn, GE) across a global network spanning 6 continents.
- Implemented asynchronous task processing with Celery for long-running jobs, improving API responsiveness and reliability.
- Deployed and maintained the Django application on AWS with Kubernetes, handling ongoing infrastructure operations and deployment workflows.
- Architected a microservices architecture with a Django/DRF primary API and a separate Node.js service for on-demand PDF report generation, integrating AWS S3 for storage and email delivery, separating compute-heavy reporting from the main API for scalability.
- Led a technical team of 3 developers (2 Frontend, 1 Backend) in an Agile/Scrum environment, owning the code review process, establishing pull request and quality standards, planning release cycles, and driving architectural decisions across the platform.
- Managed the UI localization pipeline for 13 languages via Lokalise, coordinating with external partners to ensure content accuracy.

3i Inc., Seoul — Full-Stack Developer

June 2015 – February 2019

- Developed custom Drupal modules in PHP and maintained WordPress sites for Korean university library clients during the company's web agency period, before contributing to the company's pivot to a Laravel/AngularJS SaaS platform and later a Node.js/Vue.js architecture.
- Built and maintained the SaaS 3D/VR content platform across multiple years, coordinating releases and progressively refactoring legacy modules to support new feature development.
- Implemented real-time collaboration features using WebSockets, enabling multiple users to work on content simultaneously.
- Built user authentication and role-based permissions systems to manage access control across the platform.
- Worked across MySQL, MongoDB, and Redis for data storage, caching, and session management.

Faire Savoir, Lille — Full-Stack Developer

May 2014 – May 2015

- Developed multiple public-facing tourism websites using Drupal, delivering end-to-end solutions from CMS configuration to front-end theming.
- Built booking and reservation features enabling users to search and book tourism services directly through the platform.
- Implemented admin dashboards and back-office tools for clients to manage content, bookings, and customer data.

Élap, Lille — Developer

September 2011 – May 2014

- Developed and maintained financial software for public sector organizations, working within strict regulatory compliance frameworks and accuracy requirements analogous to safety-critical software domains.
- Built end-to-end features for expense management and stock management, streamlining internal workflows for enterprise clients.
- Implemented automated systems for receipt processing and invoice generation, handling complex financial data and reporting.

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, Celery, PHP, Drupal, REST APIs, Microservices, FastAPI (familiarity)
- **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)