

Eliott Velarde

Software Engineer | TypeScript, Go & React

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SUMMARY

Software Engineer with a strong backend focus: experience building React and Next.js interfaces and developing REST APIs and concurrent services using TypeScript, NestJS, Go, and PostgreSQL. Proven track record deploying on AWS with Docker, implementing automated testing (CI/CD), and collaborating in remote teams.

SKILLS

Languages: TypeScript, JavaScript, Go, SQL

Frameworks: NestJS, Express, React, Next.js

Databases: PostgreSQL, Redis, MongoDB

Cloud & DevOps: AWS (EC2, Security Groups, Budgets), Docker, Docker Compose, Caddy, Linux (Ubuntu), GitHub Actions

Tools & Practices: REST APIs, JWT Authentication, Rate Limiting, SSRF Mitigation, Testcontainers, Git, Go testing, Jest, OpenAPI

WORK EXPERIENCE

Backend Engineer — Meevent, Remote

Apr 2026 – Jul 2026

- Standardized API communication in a Java/Spring Boot backend by documenting REST endpoints with OpenAPI, reducing front-end integration time by 20%.
- Established integration testing pipelines using Testcontainers and automated coverage tools to ensure API reliability.
- Refactored backend error handling into a unified model with trace IDs, resolving status-code inconsistencies identified during code reviews.

Frontend Engineer Intern — SimplyTechnologies, Remote

Jul 2025 – Dec 2025

- Migrated Routeiq's web interface from a legacy stack to React with TypeScript, building components directly from Figma designs and reducing runtime type errors through strict typing.
- Worked with backend engineers to define API contracts, ensuring smooth integration across an international remote team.

PROJECTS

Sentinel — Distributed Uptime Monitoring Platform – sentinel.eliottvelarde.com

Jan 2026 - Present

- Built the web UI and public status page using React and TypeScript with interactive charts for real-time metrics, integrating async state management and strict typing.
- Designed a decoupled NestJS REST API and independent Go worker (goroutines, bounded concurrency with channels, pgxpool) with an extensible checker registry; load-tested locally with 5,000 monitors (~79 checks/s, ~50MB peak worker memory) and measured the concurrency ceiling against slow targets.
- Hardened against SSRF and abuse: DNS resolution with IP validation and socket pinning (DNS-rebinding defense), blocked private/cloud-metadata ranges, redirect revalidation, rate limiting, per-user quotas, and JWT/Argon2 auth.
- Deployed on AWS EC2 (Ubuntu) with Docker Compose, Elastic IP, and Security Groups; Caddy reverse proxy with automatic HTTPS, healthchecks (including a worker heartbeat), daily PostgreSQL backups with tested restore, and AWS Budgets alerts.
- GitHub Actions CI with unit, integration, and end-to-end tests (250+), static analysis, and govulncheck across API, worker, and frontend.

IntelDigest — Article Ingestion & Analysis Engine

Jul 2026 - Present

- Building an asynchronous article-analysis service in Go(PostgreSQL, Redis): the API returns 202 Accepted while a separate worker processes each job; LLM outputs (OpenRouter) are validated against typed structs before persisting.

EDUCATION

- Computing and Informatics — Cibertec | **Graduated 1st in cohort (cumulative merit ranking, 47 students)**