

# George Véras Valentim

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## PROFESSIONAL SUMMARY

Senior full-stack engineer and technical leader with 15+ years of experience building products at national and enterprise scale — spanning ad-tech at Brazil's largest e-commerce group, real-time booking SaaS for a global travel company, and government-grade identity systems. Career highlights include designing the QR code now printed on every Brazilian driver's license and single-handedly building eCNH — the country's first digital ID mobile app — from scratch through to national launch, now used by over 40 million Brazilians. Known for driving engineering culture shifts — observability, accessibility, AI adoption — as much as for shipping complex systems. Currently exploring Lead Engineer and Technical Lead opportunities in Vancouver and beyond.

## TECHNICAL SUMMARY

<b>Languages</b>	JavaScript/TypeScript (15+ years), C# (9 years), Python, Golang, Java for Android (2 years)
<b>Web Front-end</b>	React (7+ years), Redux, Recoil.js, Storybook.js, HTML5/CSS, Babel, Sass, Flexbox, CSS Grid
<b>Web Back-end</b>	Node.js (8+ years), .Net/C# (9 years), NestJS, Koa.js, Django/Python, Golang
<b>Architecture &amp; Patterns</b>	RESTful API, Microservices, WebSockets, Design Patterns (GoF), SaaS, Chrome Extensions
<b>Testing</b>	Jest, Cypress, Mocha, Chai.js, Sinon.js, Enzyme, Selenium
<b>Databases &amp; Caching</b>	MongoDB, PostgreSQL, MySQL, Redis, Elasticsearch, Kibana, Snowflake, SQL Server, Oracle, AWS RDS/Elasticache, Google Cloud Bigtable
<b>Messaging &amp; Storage</b>	RabbitMQ, AWS SQS, S3, Athena, Kinesis, Google BigQuery
<b>DevOps &amp; CI/CD</b>	Docker, Kubernetes, Azure Kubernetes (AKS), GitHub Actions, CircleCI, Jenkins, AWS (ECS, Lambda, Beanstalk, CloudWatch), Google Cloud Platform, Serverless Framework, Marathon/Mesos
<b>Observability</b>	Grafana, Prometheus, OpenTelemetry, Sentry, Bunyan, Logstash/ELK, LogRocket
<b>Version Control &amp; Tools</b>	Git, GitHub, GitLab, Bitbucket, npm, Yarn, Lokalise, Postman, Jira, Confluence

## WORK EXPERIENCE

**Flight Centre (WhereTo) — Senior Full Stack Engineer**

Vancouver, BC | Dec 2022 – Present

- Assigned as primary backend contributor to Invoices with **no backend in place** — built 12+ endpoints from scratch over ~12 months, driving **87% enterprise client adoption** (1,198 of 1,709 active sites) and cutting support tickets by **87%** (avg. 10/month → 3/month).
- Inherited sole ownership of **4-language i18n** (EN, FR, ES, EN-GB) with no handoff or documentation when the previous owner left shortly after joining. Delivered every sprint for 3.5 years, then built a **fully autonomous pipeline** (Lokalise webhook → PR → reviewer assignment → deploy) — translations now ship themselves.
- Turned a **forgotten, unused Grafana installation into a company-wide production standard** — built the first Prometheus metrics endpoints and dashboards across every system owned; teams across the organisation independently adopted the practice as a delivery default.
- **Sole maintainer and sole architect** of the Instance Manager — the critical service every client goes through to go live on the platform. Designed a complete NestJS microservice extraction from scratch: 22 findings, 10 scoped tickets (25–41 developer-days), dual auth guards, multi-tenant DB strategy, and zero-downtime ALB cut-over plan.
- One of 3 engineers who built **Security Alerts end-to-end** over 6 months — the only engineer to add Grafana production monitoring, giving the company its first real-time view of global traveler safety events, actioned by **260+ users across 200+ client instances**.
- Delivered **MelonPay On Account Statements** (Microsoft D365) in one of the largest single-PR deliveries in the codebase: **1,920 lines across 39 files**, typed API client, and 680 lines of unit tests.
- Initiated the **WCAG 2.1 AA accessibility programme** after identifying it as a gap in enterprise RFP responses — first a11y infrastructure in the product's history. Led Phase 1: jest-axe, ESLint ARIA rules, axe-core dev overlay, semantic landmarks.

### Major Accomplishments

- Took ownership of **Invoices with no backend in place** — built from scratch over ~12 months, driving **87% enterprise client adoption** (1,198 of 1,709 active sites) and cutting support tickets by **87%** (avg. 10/month → 3/month).
- Turned a **forgotten, unused Grafana installation into a company-wide production standard** — built the first Prometheus endpoints and dashboards across every system owned; teams across the organisation independently adopted observability as a delivery default.
- **Sole architect of the Instance Manager microservice extraction** — the critical service that provisions every client on the platform. Designed a complete NestJS architecture from scratch: 22 findings, 10 scoped tickets (25–41 developer-days), dual auth, multi-tenant DB strategy, zero-downtime ALB migration plan. Now underway.

**Stack:** TypeScript, React 18, Node.js, Koa.js, NestJS, PostgreSQL, Redis, Elasticsearch, RabbitMQ, Azure Kubernetes (AKS), Grafana, Prometheus, Docker, Lokalise

### Jungle Scout — Frontend (React) Engineer

Vancouver, BC | Jul 2021 – Oct 2022

- Served as the **sole front-end engineer** on Downstream — Jungle Scout's acquired Ad Tech subsidiary — independently owning the entire React codebase for over a year.
- Introduced and built out **Storybook** from the ground up, delivering **100+ reusable components** that were progressively adopted beyond the Ad Tech team and became a front-end foundation across Jungle Scout.
- Mentored and onboarded the team's second front-end engineer, establishing component standards and documentation that enabled a smooth knowledge transfer before departing.

**Stack:** React, TypeScript, JavaScript, Storybook, Django (Python), Docker, AWS

**Wonder — Full Stack TypeScript Engineer**

New York (remote) | Dec 2020 – May 2021

- Joined at the founding stage of a Chrome extension that used intelligent deep-crawling to surface page-level summaries across Google search results — dramatically cutting research time for its primary users: **journalists and academics**.
- As one of **4 engineers** on a near-greenfield codebase, built a broad range of features across the full TypeScript stack — from the React frontend to the Node.js microservice mesh (one service in Python) that powered the crawler.
- Introduced **Storybook** for component documentation and delivered the product's **dark theme**, improving both developer experience and UI polish.

**Stack:** React, TypeScript, Node.js, Koa.js, Storybook, MongoDB, PostgreSQL, Serverless Framework, Docker, Redis, AWS

**B2W Digital — Senior Backend Engineer**

Rio de Janeiro, Brazil | Mar 2018 – Dec 2020

- Built and maintained a fleet of **7 domain-specific microservices** (ad search, finances, user management, and more) powering ad delivery across Americanas, Submarino, and Shoptime — three of the largest e-commerce brands in Latin America.
- Engineered a system capable of sustaining **peaks of 1,200 ads delivered per second** during Black Friday, with auto-scaling infrastructure that dynamically adjusted capacity based on traffic and season.
- Contributed to the infrastructure migration from **Marathon/Mesos to Kubernetes**, improving reliability and scalability of the ad platform.
- The team's architectural patterns and operational practices were **adopted broadly across B2W**, one of the largest e-commerce groups in Latin America, as a reference model.
- Shared full DevOps ownership — every engineer was responsible for the infrastructure, operating as a self-managed Scrum team.

**Stack:** Node.js, MongoDB, MySQL, Docker, Jenkins, RabbitMQ, Redis, Kubernetes, Marathon/Mesos, AWS, Google Cloud, Spot.io

**Panorante — Founder & Engineer**

Rio de Janeiro, Brazil | Nov 2016 – Mar 2018

- Founded and built a **LinkedIn-style platform for construction and renovation professionals** — architects, interior designers, painters, and electricians could create portfolio profiles and be discovered by clients looking to hire them; store owners could list their businesses and addresses.
- Took the product from zero to **4 paying clients**, handling every aspect of the business: product design, engineering, customer development, inbound marketing, and UX.
- Implemented advanced SEO with JSON-LD structured data (Google-recommended format) to maximise organic search placement for professional profiles.
- Built with accessibility as a first-class concern, ensuring screen-reader compatibility for users with visual impairments.
- Evolved the tech stack independently — started on .Net/C#, migrated the backend to Node.js and Golang, and built the admin panel as a React PWA.

**Stack:** .Net/C#, Node.js, Golang, React (PWA), AWS (EC2, S3, RDS, ElastiCache, CloudFront)

**VALID — Technical Leader**

Rio de Janeiro, Brazil | Oct 2011 – Oct 2016

- Five years at Brazil's largest identity solutions and information security company, serving government clients on a **team of 10** including testers.

- Acted as **senior engineering architect** — designed the architecture of most systems and coordinated the developers responsible for implementing them, while also serving as the technical liaison between engineering and directors/managers.
- Took ownership of R&D projects to design and implement new identity solutions for the federal government.
- Identified the gap in front-end expertise, assembled and trained the company's *first dedicated front-end team* from scratch — coaching developers in JavaScript, Angular, Sass, jQuery, and CSS animations. The team adopted Scrum, and measurable UX and support satisfaction improvements followed.
- Concurrently taught a C#.Net course at Digidata (Mar–Aug 2012) as a part-time engagement.

### Major Accomplishments

- Developed the **first Brazilian government document production line in the cloud** — an Angular SPA consuming a microservices backend.
- Solely designed and developed **eCNH** — Brazil's first Android app for digital civilian identification and driver's license — entirely alone, from scratch through to national launch. Now used by **over 40 million Brazilians** (≈44% of all licensed drivers in the country).
- Designed the **QR Code security element** now embedded in every Brazilian digital driver's license, used nationwide as the document's primary tamper-resistant authentication feature.

**Stack:** Angular, Asp.Net MVC, Java (Android), Jasmine, Karma, Bootstrap, Sass, WebSockets, Bouncy Castle (encryption), jQuery, Oracle Database

### Oi Telecom — Systems Analyst / Consultant

Rio de Janeiro, Brazil | Mar 2010 – Oct 2011

- Modernized the software legacy of an internal department at one of Brazil's largest telecommunications companies, replacing manual processes with automated solutions.

### Spiderware — Software Developer

Rio de Janeiro, Brazil | Apr 2008 – Mar 2010

- Developed web applications using .Net and JavaScript/jQuery.

### Oswaldo Cruz Foundation (Fiocruz) — Web & Database Scholarship

Rio de Janeiro, Brazil | Mar 2006 – Oct 2007

- Built and maintained the website for the Third Brazilian Health and Environment Olympiad; managed the event's MySQL database.

## EDUCATION

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**Diploma in Software Projects Management** — PUC-Rio (Pontifícia Universidade Católica do Rio de Janeiro) 2011 – 2013

**Bachelor of Computer Science** — Castelo Branco University 2005 – 2010

## CERTIFICATIONS

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- Arc Certified Remote Developer — Arc.dev
- Certified ScrumMaster (CSM) — Scrum Alliance
- Project Management Professional (PMP)
- IEEE Certified Biometrics Professional
- Microsoft Certified Technology Specialist (MCTS) — Web Application
- DELF: Diplôme d'Études en Langue Française — Niveau A2

## LANGUAGES

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**Portuguese** — Native      **English** — Fluent      **French** — Intermediate

## COURSES & TRAINING

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- Introduction to Data Science Bootcamp — Veiga de Almeida Foundation, 2018
- Empretec (entrepreneurship programme) — SENAC, 2017
- French Language — Alliance Française, 2015