# George Véras Valentim

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## PROFESSIONAL SUMMARY

Staff-level full-stack engineer whose defining pattern is building the capability an organisation was missing and then setting the standard other teams adopt: built an invoicing backend from an empty repository to adoption by 1,198 of 1,709 enterprise sites, and domain microservices sustaining peaks of 1,200 ads per second on Black Friday. At VALID that meant creating a front-end discipline from nothing: no engineers, no way to interview for one, so the first was trained on the job, then used to train the second, until there was a team of ten. Observability became the delivery default at two companies, years apart, with no mandate either time.

Sole engineer behind the first working version of eCNH, Brazil's digital driver's licence, now carried by over 40 million people, and designer of the security QR code on every new Brazilian licence since 2017. The recent work has moved to AI: an early Claude Code adopter whose work with one QA engineer spread a new way of testing to seven across the organisation, and the designer of a production multi-agent LLM system with tool design, agent-to-agent handoff, human-in-the-loop escalation and guardrails for agents acting on real client data. Based in Greater Vancouver, BC, and legally authorised to work in Canada.

## TECHNICAL SUMMARY

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|---|---|
| **Languages & Runtime** | JavaScript (18 years), TypeScript (in production since 2020), Node.js (since 2018), C# / .NET (9 years), Python, Golang, Java (Android), SQL |
| **Product Engineering** | React (7+ years), Redux, Storybook, component platforms and design systems, accessibility to WCAG 2.1 AA, testing (Jest, Cypress, Selenium) |
| **Backend & Architecture** | NestJS, Express, Koa.js, Django, REST API design and versioning, microservice extraction from monolith, multi-tenant data and permission models, event-driven systems (RabbitMQ, SQS, Kinesis), Redis, Elasticsearch |
| **Data, Cloud & Operations** | PostgreSQL, MySQL, MongoDB, Oracle, AWS (Lambda, SQS, S3, RDS, ECS), Azure Kubernetes (AKS), Docker, GitHub Actions, Grafana / Prometheus |
| **AI & LLM Engineering** | Production multi-agent system design (tool design, agent-to-agent handoff, human-in-the-loop escalation, evaluation and guardrails for agents acting on real client data), LLM applications on NestJS and PostgreSQL, and AI-assisted development at team scale |

## WORK EXPERIENCE

**Flight Centre (WhereTo) - Senior Full Stack Engineer & Technical Lead** Vancouver, BC | Dec 2022 - Sep 2026

- Took Invoices from no backend at all to 12+ REST endpoints over ~12 months, owning the data model, the generation and delivery pipeline and the UI: adopted by 1,198 of 1,709 active enterprise sites, with support tickets down from an average of 10 a month to 3.
- Took over an abandoned 4-language i18n (EN, FR, ES, EN-GB) with no handoff and no documentation, delivered every sprint for 3.5 years, then removed himself from the loop with a fully autonomous pipeline (Lokalise webhook to PR to reviewer assignment to deploy).
- One of 3 engineers who built Security Alerts end-to-end over 6 months, and the only one to add Grafana production monitoring, giving the company its first real-time view of global traveller 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.
- 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

- Only front-end engineer on Downstream, Jungle Scout's acquired ad tech subsidiary, owning the entire React codebase alone for over a year, and mentored the second engineer onto it before departing.
- Stack: React, TypeScript, JavaScript, Storybook, Django (Python), Docker, AWS

**Wonder - Full Stack TypeScript Engineer** New York (remote) | Dec 2020 - May 2021

- One of 4 engineers on a near-greenfield Chrome extension that deep-crawled Google results into page-level summaries for journalists and academics, building across the full TypeScript stack from the React frontend to the Node.js crawler mesh.
- 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 operated 7 domain microservices powering ad delivery for Americanas, Submarino and Shoptime, sustaining peaks of 1,200 ads per second on Black Friday with auto-scaling infrastructure.
- Built domain services consumed by the production GraphQL aggregation layer serving Americanas, Submarino and Shoptime at about 1,000 requests per minute, and maintained the aggregation layer itself.

- Worked the platform migration from Marathon/Mesos to Kubernetes, on a self-managed Scrum team where every engineer shared devops ownership.
- Stack: Node.js, Express, GraphQL, MongoDB, MySQL, Docker, Jenkins, RabbitMQ, Redis, Kubernetes, AWS, Google Cloud

**Panorante - Co-founder & Engineer** Rio de Janeiro, Brazil | Nov 2016 - Mar 2018

- Co-founded and built a portfolio and discovery platform for construction and renovation professionals: public, indexable profiles they posted finished jobs to, so clients searching online landed on the work itself and messaged them directly. Implemented JSON-LD structured data to maximise organic placement for those profiles.
- Took it from zero to 4 paying clients. Charging during the pilot was deliberate: per-profile maintenance was never the intended business, it was the fastest honest way to learn whether that market would pay at all.
- 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 and information security company, serving federal government clients on a team of 10 including testers, as senior engineering architect: designed most of the systems and coordinated the developers implementing them.
- Designed and built alone the first working version of eCNH, Brazil's digital driver's licence, in 2016: the driver's app and the officers' app. Wrote the entire authentication flow, which verifies a licence offline by checking its digital signature, with no network call and no assumption that the device holding it is honest. VALID presented it to the federal government in Brasília; SERPRO, the federal data service, took over the design and built the national system, now carried by over 40 million Brazilians.
- Designed the QR Code security element on every new Brazilian driver's licence since 2017: tested QR versions until one fit on the card, survived damage and still carried a low-resolution copy of the driver's photo, which defeats photo-swap forgery. Also delivered the first Brazilian government document production line in the cloud.
- Stack: Angular, ASP.NET MVC, Java (Android), WebSockets, Bouncy Castle (cryptography), Jasmine, Karma, Oracle Database

**Earlier roles** Rio de Janeiro, Brazil | 2006 - 2011

- Oi Telecom (Systems Analyst, 2010 to 2011): modernised legacy software at one of Brazil's largest telecoms.
- Spiderware (Software Developer, 2008 to 2010): web applications in .NET and JavaScript. Fiocruz (scholarship, 2006 to 2007): website and MySQL database for the Third Brazilian Health and Environment Olympiad.

## SCOPE BEYOND THE ROLE

- **Created a discipline the company did not have.** VALID had no front-end engineers and no way to hire one: the capability did not exist inside the company, so nobody could even interview for it. Trained the first engineer personally, then used that engineer to train the second, and repeated it until there was a team of ten. The standards that team set were adopted beyond it.
- **Made observability the delivery default at two companies, years apart.** At B2W Digital, facing a sprawl of microservices nobody could see into, brought Grafana in and built every panel of the first dashboard; the team adopted it with no friction. Years later at Flight Centre, found a Grafana installation nobody opened, built the first Prometheus endpoints and dashboards across every system owned, and teams elsewhere adopted the practice independently. No mandate either time.
- **Turned an unasked question into a company standard.** Reading enterprise RFP responses, found Flight Centre answering accessibility questions it could not back up. Argued it as a commitment already made to clients rather than as a moral case, which is where these efforts usually stall, and WCAG 2.1 AA became something the platform is built against.
- **Set the standard, not just the services.** At B2W Digital, one of the senior engineers who, with the team head and the head of devops, worked out how a service gets created so that it fits the way the team documents and ships: 7 domain microservices serving Americanas, Submarino and Shoptime as shared capabilities rather than per-brand copies, fast enough that one request could cross seven of them and still return quickly. The team's patterns became the company-wide reference model.
- **Wrote the architecture the team then executed against.** Sole architect of the Instance Manager, the multi-tenant service every enterprise client passes through to go live: 22 findings, a dual authorisation model, a multi-tenant data and permission strategy, a zero-downtime cut-over plan, and the sequenced milestones the team delivered from.
- **Left a foundation behind, twice.** At Jungle Scout, introduced Storybook and delivered 100+ reusable components that were adopted beyond the Ad Tech team and became a front-end foundation across the company, then trained a successor before leaving.
- **Removed a bottleneck that sat outside the role.** Noticing in standup that ticket output was piling up in QA rather than shipping, showed the QA engineer how to drive Playwright with Claude to pre-test her own tickets. The whole team shipped faster. She took it to the head of QA, who asked for it in writing. Documented the practice and put a Postman collection template into the developer's definition of done, which grew into a repository of its own. Seven QA engineers across the organisation ended up working that way, none of it from above.

## OPEN SOURCE

- **qredential** (qredential.js.org, github.com/george-veras/qredential): open source TypeScript library with zero dependencies, built on WebCrypto only, for offline QR credential verification using SD-JWT (RFC 9901), with offline revocation and key binding. MIT licensed, published on npm with trusted publishing; documentation in 9 languages.

## EDUCATION

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

- Designing and Building AI Products and Services, MIT xPRO (6 CEUs), 2026. Exemplary Assignment badge (Emeritus) for the organization design workbook.
- 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

Portuguese, Native | English, Fluent | French, Professional working proficiency