Juan M. Tissera

Argentina (UTC-3) · Remote · contact@bitof.dev · bitof.dev · LinkedIn · GitHub

Staff-level platform engineer with 20+ years in software, building the infrastructure AI products run on: multi-cloud Kubernetes on GCP and AWS, everything as Terraform, DevSecOps, and edge AI at 10,000-camera scale. Independent contractor seeking one long-term, full-time platform role; remote, working in US and EU business hours.

LANGUAGES AND TECHNOLOGIES

- **Cloud and platform:** GCP (GKE, Cloud Run, Cloud Build, Artifact Registry, BigQuery), AWS (EKS, ECR, IAM), Kubernetes, K3s, Terraform, Helm, Argo CD, Docker
- **Security and delivery:** OIDC and Workload Identity Federation, Trivy, Grype, GitHub Actions, WireGuard, Tailscale
- **Edge AI and video:** NVIDIA Jetson, PyTorch, ONNX Runtime, YOLO, OpenCV, OpenVINO, DL Streamer, MinIO
- **Languages and data:** Python, TypeScript, Node.js, Bash, SQL, PostgreSQL, MongoDB, SQLite

EXPERIENCE

Independent Platform Engineer · Contract, remote

Oct 2025 - Present

Authentrics.ai (AI security, US) · Platform & DevSecOps, primary engagement — Oct 2025 - Present

- Brought a hand-built GCP estate under Terraform with zero downtime: 316 resources in 12 modules across 9 environments, including 48 build triggers, each import gated on a zero-diff plan (Terraform, GKE, Cloud Run).
- Cut cloud spend by ~70% with cost dashboards, GPU node pools that scale to zero and idle-environment shutdown (BigQuery, GKE).
- Delivered images to 4 partner AWS accounts with zero stored keys, promoting the same digest from dev to prod through identity federation (OIDC, Workload Identity Federation).
- Unified deployments on one Helm chart serving 6 services across 7 GKE and EKS environments, cut over to live pipelines with byte-identical renders (Helm, Argo CD).
- Built a weekly vulnerability sweep over 14 image tags in 3 environments with one owned, auto-closing ticket per image; the first run surfaced 12 critical and 388 high findings (Trivy, Grype).

Neuvana AI (computer vision) · Lead Engineer — Feb 2026 - Present

- Built the edge vision pipeline with depth-aware tracking, catalogue recognition and on-device face blur, sustaining ~8–9 fps at 720p on Jetson Orin NX (NVIDIA Jetson, YOLO, PyTorch, ONNX Runtime).
- Ran the containerized vision services on a 5-node edge fleet (3 Jetson Orin NX, an x86 GPU gateway, a CPU kiosk) behind a pull-based control plane with no inbound path to the devices.
- Delivered a multi-tenant analytics platform as 16 work packages in ~10 days, now used in enterprise presales (Python, Docker).
- Built a reusable deployment scaffold generating per-node Compose files with memory budgeting and per-app private networks; cut a 3-service platform over with zero route changes (Docker, Tailscale).

Tech Lead, Edge AI & Platform · Austin GIS and its digital-signage spin-off

2022 - Present

- Hired from the Intel contract; led a team of 6 building the hyperconverged edge platform behind a 10,000+ camera customs deployment across 198 sites: 90-day retention at 1080p/15 fps on erasure-coded storage (MinIO, K3s).
- Raised capacity to 300+ video streams per server, 60+ with AI analytics, with clustered failover.
- Engineered the far-edge node stack with automated onboarding and remote management that field technicians could install (K3s, Docker).
- Shipped smart-city analytics to 3 municipalities covering 6,252 cameras, and a retail pilot with 90% reliable demographic segmentation (OpenVINO, DL Streamer).
- For the spin-off since 2026: built fleet management for 400 Android signage tablets and a vendor-neutral device-management proxy that kept the fleet running through a 12-hour vendor API outage (TypeScript, Node.js, MongoDB).

Senior Full-Stack Engineer · Intel · Contract 2020 - 2021

- Built video-AI software for smart-city programmes, including custom inference plugins and automated onboarding for edge clients (OpenVINO, DL Streamer).

Earlier

- **Tech Director, MobyDigital** (2013 – 2020): managed 5 teams of ~4 engineers; led architecture and delivery of mobile apps for Canon Europe, VISA, ICBC and the Dutch government.
- **Brandigital** (2003 – 2013): grew from web developer to tech director; CMS and CRM products rolled out in 10 countries for adidas, Mastercard and McDonald's, and a marketing product with 10M+ users.

ADVISORY

Talent & Technical Assessment Advisor · Mission.dev · Part-time 2021 - Present

- Design technical assessments and evaluation frameworks for a global engineering talent network, by technology and seniority level.
- Review candidate code submissions and advise talent teams on screening decisions, including flagging AI-generated or externally assisted solutions.

WRITING AND OPEN SOURCE

- **bitof.dev**: architecture writing, e.g. Keyless across clouds and 90 days of video from 10,000 cameras.
- **sketch-diagrams**: open-source Astro component that renders hand-drawn architecture diagrams to SVG at build time.

VOLUNTEER

Head of Systems (pro bono) · Fundación Goodwill Mar 2022 - Present

- Designed and run the clinical and logistics platform behind pediatric health trips: 182 volunteers, 24 specialties, 504 children seen.
- Run a self-hosted platform serving 4 apps with 177 row-level security policies, and offline-first field apps that sync on return (PostgreSQL, SQLite).

EDUCATION

- Software Engineering studies, Universidad Tecnológica Nacional — 2000 – 2005
- PMI Diploma in Project Management, Universidad Blas Pascal — 2010