

DIEGO MELLIS GALAZ

Backend Software Engineer

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PROFILE

Backend Software Engineer with production experience across payments, retail logistics and large-scale scientific data, building APIs, microservices and event-driven data pipelines in TypeScript, Python and Node.js. Delivered systems end-to-end across AWS, GCP and Azure: PostgreSQL schema design, Kafka stream processing, Docker and Kubernetes deployment, CI/CD and monitoring. Based in Berlin, German at working proficiency (B2), degree formally recognised by the KMK as equivalent to a German Master's.

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, SQL, Java

Backend: Node.js, Express, FastAPI, Django, Flask, Spring Boot, REST API design, microservices, OAuth 2.0 / JWT

Data & Messaging: PostgreSQL, MongoDB, SQLAlchemy, Sequelize, Kafka (incl. MirrorMaker), Google Pub/Sub, Pandas, BigQuery (Google Data Analytics Certificate, 2026)

Cloud & DevOps: AWS (EC2, S3, Lambda, EKS, Boto3), GCP, Azure, Docker, Kubernetes, GitHub Actions, GitLab CI/CD, Terraform (early-stage)

Observability & QA: Elasticsearch, Prometheus / Grafana, WinstonJS, Log4j, pytest, Jest

Ways of working: Git, JIRA, Scrum, code review, pair programming, technical documentation, English-speaking international teams

Frontend: React, Vue.js

WORK EXPERIENCE

IX Comercio (Intcomex)

Jul 2022 – Jan 2023

Full Stack Engineer, Santiago, Chile

- Built and shipped a **payment orchestrator** for e-commerce platforms as a founding member of a newly formed Payments team, owning the service from database design through third-party PSP integration in **TypeScript** and Node.js.
- Designed and modelled the **PostgreSQL** schema from scratch, enforcing data consistency across services through structured validation and transactional write patterns.
- Maintained clean **REST API** contracts across internal microservices and external integrations, implementing JWT-based authentication, retries, rate limiting and idempotency keys for reliable asynchronous payment flows.
- Deployed and monitored backend services on **Microsoft Azure**, establishing structured logging with WinstonJS and Log4j to cut mean time to diagnosis on production incidents.

Falabella Retail S.A.

Dec 2021 – Jul 2022

Software Engineer, Santiago, Chile

- Developed and operated logistics microservices on **GCP**, managing containerised deployments, pods and load balancers on **Docker** and **Kubernetes** and owning the **CI/CD** pipelines in GitHub Actions and GitLab CI.
- Automated roughly **95% of a manual logistics workflow** using Python and Node.js, removing manual intervention from file ingestion and dispatch-order processing and integrating asynchronous messaging via Google Pub/Sub.
- Wrote unit tests (Jest, pytest) and technical documentation across all owned services, and acted as **backup Tech Lead**, running code reviews, pair programming and direct client communication during delivery.

ALeRCE Astronomical Project

Mar 2021 – Nov 2021

Software Engineer, Santiago, Chile

- Consumed and processed high-volume astronomical alert streams (ZTF) via **Kafka**, configuring Kafka MirrorMaker on EC2 to replicate consumer groups and bridge telescope publishers to the internal **AWS** processing pipeline, handling thousands of events per second.
- Maintained and optimised a distributed **Python** data-processing pipeline on AWS (EC2, S3, Lambda, EKS, Boto3), using **SQLAlchemy** for ORM-based access to production PostgreSQL schemas and managing AVRO datasets at scale.
- Monitored pipeline processing times using **Elasticsearch** and Prometheus/Grafana dashboards, querying indexed JSON event data to track throughput and identify bottlenecks across the alert pipeline.

- Developed REST APIs and internal services (Django) plus an end-to-end web application in **Vue.js**, implementing **OAuth 2.0** authentication between the frontend and backend services and translating complex scientific data into a usable research tool, in collaboration with astronomers in an English-speaking international environment.

Drimo (ex Rokketslab)

Jul 2019 – Sep 2019

Full Stack Developer Trainee, Santiago, Chile

- Built React components and Node.js APIs within a custom internal framework; first production exposure to AWS S3 and **GraphQL**.

AVLA

Oct 2018

Backend Engineer (Freelance), Santiago, Chile

- Implemented a high-throughput system for individual and bulk external service queries in **Java Spring Boot**, applying design patterns to reduce per-query cost for the client.

EDUCATION & CERTIFICATIONS

Universidad de Santiago de Chile

2015 – 2020

B.Sc. Computer Science. Recognised by the KMK (anabin) as equivalent to a German Master's degree.

Universidad de Santiago de Chile

2019

Diploma, Forensic Computer Expertise.

Google / Coursera

2026

Google Data Analytics Professional Certificate (SQL, BigQuery, data visualisation).

Professional development, Berlin

2023 – 2026

Relocated to Germany. Completed German language training to B2 working proficiency and obtained formal KMK (anabin) recognition of the Computer Science degree, alongside independent backend development in Python and FastAPI.

LANGUAGES

Spanish (Native) | English (Fluent, C1) | German (Working proficiency, B2)

ADDITIONAL

- **Teaching Assistant, Universidad de Santiago de Chile (2017 – 2020)**: ran weekly lab and tutorial sessions over eight semesters in Programming, Software Engineering Methodologies, and Modelling and Simulation; reviewed and graded student code and project deliverables.
- **1st Place, DefHack Hackathon Chile (2018)**, organised by Microsoft, NASA and DefHack: built WallyBot, a Telegram scheduling chatbot (Microsoft Bot Framework, C#) in 26 hours.