Jose Hidalgo

Senior Full-Stack Engineer | Event-Driven Architecture, AI-Assisted Development

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SUMMARY

Senior engineer specializing in distributed, event-driven systems who can take a complicated business domain from requirements through architecture and production.

EXPERIENCE

Senior Software Designer / Full-Stack Engineer — Landis+Gyr

Mar 2026 – Present | Finland

Design, build, and maintain smart-metering software products serving utility and energy-sector customers across a distributed, cloud-native platform.

- Deliver full-stack features across Java, Spring Boot, Node.js, Dapr, GraphQL, and gRPC with an Angular and TypeScript frontend
- Design backend services and APIs for meter data management, IoT and device communication, energy-consumption analytics, customer portals, and billing and grid integrations
- Migrated a legacy service to Scala, improving maintainability and aligning it with the team's microservice and distributed-system standards
- Reduced defects and improved product reliability through stronger API design and autonomous ownership of delivery
- [Smart Metering Platform] Built backend services and APIs on Java, Spring Boot, and Node.js with Dapr for service-to-service communication
- [Smart Metering Platform] Exposed data through GraphQL and gRPC interfaces consumed by an Angular and TypeScript frontend
- [Smart Metering Platform] Ran on Google Cloud Platform with PostgreSQL and MongoDB Atlas as primary data stores
- [Smart Metering Platform] Delivered features across meter data management, IoT and device communication, consumption analytics, customer portals, and billing and grid integrations
- [Smart Metering Platform] Migrated a legacy service to Scala to align it with team microservice standards

Full-Stack Engineer / Consultant — twoday

Nov 2022 – Feb 2026 | Jyväskylä, Finland

Joined as a junior developer and grew to senior consultant level while delivering distributed systems for enterprise clients. Worked in cross-functional teams of 8 to 10 engineers, developing deep expertise in event-driven design and functional programming with Scala.

- Grew from junior developer to senior-level consultant through direct work on large-scale distributed systems
- Designed backend services following Domain-Driven Design and functional programming principles
- Used AI-assisted development workflows for faster prototyping, test generation, and feature delivery
- [Global Transportation Management System (TMS)] Implemented CQRS and Event Sourcing using Akka Persistence and Cassandra
- [Global Transportation Management System (TMS)] Built Akka Streams pipelines processing thousands of booking and shipment events daily
- [Global Transportation Management System (TMS)] Designed dual-repository pattern (Elasticsearch + optimized projections) for low-latency read models
- [Global Transportation Management System (TMS)] Developed REST and GraphQL APIs (Lagom/Play, http4s) and integrated legacy systems via SOAP
- [Global Transportation Management System (TMS)] Implemented complex financial logic including multi-party cost allocation, tax calculations, and invoice validation
- [Global Transportation Management System (TMS)] Built intelligent caching and ERP synchronization mechanisms
- [Global Transportation Management System (TMS)] Contributed to React + TypeScript operational UIs with real-time validation

- [Headless CMS & Cross-Platform Mobile Platform] Designed and configured headless CMS solutions using Strapi and Payload CMS
- [Headless CMS & Cross-Platform Mobile Platform] Built React Native applications targeting Android and iOS
- [Headless CMS & Cross-Platform Mobile Platform] Developed React + TypeScript web frontends consuming CMS-driven APIs
- [Headless CMS & Cross-Platform Mobile Platform] Deployed backend services and CMS infrastructure to cloud environments
- [Headless CMS & Cross-Platform Mobile Platform] Integrated authentication, role-based access control, and dynamic content modeling
- [Headless CMS & Cross-Platform Mobile Platform] Used AI tools (LLMs, Copilot) for feature prototyping, schema modeling, and test generation

Test Automation Engineer — Etteplan

Mar 2022 – Sep 2022 | Jyväskylä, Finland

Improved software reliability through automated testing and CI integration.

- Built automated test suites using Python and Robot Framework
- Designed structured test cases and performance scenarios
- Contributed to CI pipeline improvements

IT Consultant — CGI

Jan 2020 – Aug 2021 | Greenville, South Carolina, USA

Worked as an external consultant for a major global tire manufacturer, supporting enterprise platform operations across North and Central America.

- Provided platform administration and user support across multiple regions
- Handled user provisioning, permissions, reporting, and data queries
- Delivered consistent service in a client-facing consultancy role

Customer Solutions Specialist — Asurion

Apr 2015 – Jan 2020 | USA

Developed the customer communication and problem-solving skills that later became a foundation for technical consultancy work.

- Managed end-to-end customer interactions including claims processing and resolution
- Built the communication and service skills that directly contributed to success in later engineering and consultancy roles

EDUCATION

Master of Science — JAMK University of Applied Sciences

Aug 2024 – Nov 2025 | Finland

Thesis: Command Event Query Separation, A Framework for Modeling Scalable Services. Proposed CEQS, extending Clean Architecture, EDA, DDD, and CQRS with events as first-class citizens. Validated through a Kotlin-based community management prototype using Design Science Research.

Bachelor of Science — Middle Tennessee State University

Jan 2016 – Jan 2019 | USA

Focus on software engineering, algorithms, and systems design.

SKILLS

Distributed Backend Engineering - 6 years production · event-sourced logistics platform, smart-metering services / Scala, Java, Kotlin, Akka, Spring Boot, CQRS, Event Sourcing, DDD, Microservices, APIs & Service Communication - Current · smart-metering platform, TMS integrations / GraphQL, gRPC, REST, Dapr, SOAP integration, Lagom, Play, http4s, Cloud & Data - 5 years production · GCP and Azure workloads / Google Cloud

Platform, Azure, Docker, PostgreSQL, MongoDB Atlas, Cassandra, Elasticsearch, Event Hub, Frontend & Mobile - Current · customer portals and operational UIs / Angular, React, TypeScript, React Native, Tailwind CSS, CMS Architecture - 2 years · client platforms and personal multi-tenant platform / Payload CMS, Strapi, Headless CMS Design, AI-Augmented Engineering - Daily workflow · prototyping and test generation / LLM-assisted development, prompt engineering, automated test generation, AI-driven prototyping, Also works with - Prior roles and side projects / Rust, Tauri, Svelte, Python, Robot Framework, Node.js

LANGUAGES

English (Native or Bilingual), Spanish (Native or Bilingual), Finnish (A2)

CERTIFICATIONS

Finnish Language Certificate — TE-toimistot
Mar 2022 – Mar 2022
Completed structured Finnish language studies.

LINKS

Website: https://jhidalgo.dev/cv