

# GUILLERMO LÓPEZ

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www.linkedin.com/in/guillermolg

Granada, España

## PROFILE

CTO & Backend Engineer with solid experience designing and leading distributed, scalable systems. Specialized in clean architectures (Hexagonal, DDD, CQRS, Microservices) and MERN stack development. Skilled in integrating cloud-native solutions with deep proficiency in AWS. Proven track record in leading high-performing engineering teams, optimizing production performance, and delivering complex projects with a focus on resilience, observability, and maintainability. Passionate about software architecture, infrastructure as code, and emerging fields like MLOps and cognitive systems.

## SKILLS

### TECHNOLOGIES

- JavaScript, TypeScript
- Node.js, Express.js, Nest.js
- Jest Testing
- Redis
- MQTT, RabbitMQ, Kafka
- MongoDB, PostgreSQL
- Docker, Kubernetes
- CI/CD (Github Actions)
- React.js, Next.js
- Tailwind, Bootstrap
- Git (GitHub, GitLab)
- HTML, CSS, Sass
- Agile scrum methodology (Software Atlassian, Jira)
- CMS (Wordpress, Shopify, Contentful, BigCommerce, Prismic)

## EDUCATION & CERTIFICATIONS

My academic path began at the Camagüey High-Capacity Training Center, where I prepared for international science competitions and was selected as a national candidate for the International Physics Olympiads (2015-2017). I later earned a Bachelor's degree in Civil Engineering from the University of Camagüey, Cuba (2017-2021), graduating with honors and receiving multiple awards, including the Student Research Award (2019) for academic and research excellence. During my undergraduate studies, I complemented my technical education with postgraduate courses in Communication, Social Networks, and Relational Negotiation at the Universidad Adolfo Ibáñez, Chile (2020-2021). What began as a personal interest in software development evolved into a professional career: I engaged in rigorous self-directed training through online platforms, completing advanced courses in Node.js, React.js, AWS, TypeScript... which laid the foundation for my current role in software engineering and technical leadership.

## WORK EXPERIENCE

2019-2021 | Freelance  
**FULL STACK DEVELOPER**

Worked as a Full Stack Developer for national and international companies such as "Massielcreaciones" (Cuba, local craft store), "Estrella Reina" (USA, high-end furniture dropshipping store), "Vilain Energy" (Venezuela, heavy material import company for oil well drilling), and "Jesam Consulting" (Germany, software consulting firm where I worked on various internal projects). During this time, I strengthened my expertise in the MERN stack (MongoDB, Express, React, Node.js) and developed solutions using CMS platforms like Shopify, WordPress, and headless CMS such as Contentful and BigCommerce for e-commerce and content management systems.

2021 - 2023 | Contapp Digital RD  
**PROJECT MANAGER & BACKEND LEAD**

Contapp Digital is a pioneering automated accounting system in the Dominican Republic, designed to optimize accounting workflows for businesses and accountants by digitizing invoices and generating financial reports. As a Backend Developer, I led the logical development of the system and its applications for Android, iOS, and web clients. The backend was built with ExpressJS, TypeScript, and MongoDB, with a strong focus on comprehensive testing using Jest. As demand grew, we migrated to a microservices architecture using NestJS, Redis, and RabbitMQ. The system was structured using Hexagonal Architecture, complemented by DDD and CQRS design patterns to ensure scalability and performance.

2022-2023 | Part-time Freelance  
**BACKEND & DEVOPS**

Relocated to Spain, I worked as a DevOps and Backend Consultant for two Spanish companies: InformageStudio, a software consulting firm, and Mutter Ventures, a startup incubator/venture capital firm. In these roles, I managed AWS infrastructure, maintained codebases, and designed backend solutions for new features.

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## ...WORK EXPERIENCE

2023-Present | Vlue Logistics LLC  
**BACKEND LEAD & CTO**

Initially joining as Backend Lead, I spearheaded the optimization of backend workflows, with a strong focus on real-time tracking and driver positioning algorithms. I led a full migration toward a clean architecture to enhance scalability and maintainability. I built performance-critical systems using technologies such as NestJS, Kafka, MQTT, Firestore, Redis, and Apache Pinot, and integrated third-party services like Here Maps and Stripe. Throughout the process, I applied advanced design and architectural patterns—including DDD, CQRS, Hexagonal Architecture, the Repository Pattern, and polyglot persistence—to significantly improve system responsiveness and reliability.

Promoted to CTO, I assumed end-to-end responsibility for the company's entire tech ecosystem, including four native mobile apps, a management back-office, a support dashboard, the backend platform, cloud infrastructure, and the public website. I orchestrated a progressive modernization of the stack and infrastructure on AWS, ensuring zero disruption to ongoing development while introducing new features in parallel.

My leadership extended to building and mentoring a high-performance development team, redefining workflows through Agile methodologies, and driving cultural and operational improvements that accelerated delivery, improved system stability, and enabled sustainable long-term scaling across all technical fronts. I also played an active role in strategic and business decision-making at the executive level, contributing to the overall direction and success of the company.

2024-Present | Freelance  
**FULL STACK DEVELOPER**

I also worked independently on various side projects as a Full Stack developer. One example is Numa365, a numerology app where I completed my first mobile development work using React Native. I also contributed to other projects still in development, such as Echotour.