

# Luis Miguel Vargas Garrido

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## SUMMARY

Full-stack developer with multiple years of extensive experience in developing and maintaining web applications. Skilled in modern front-end and back-end development frameworks and languages. Experienced in building secure, user-friendly websites and applications. Proficient in working with geospatial tools to create interactive maps and location-based features. Adept at integrating front-end and back-end technologies to deliver robust, scalable solutions that meet client needs and enhance user experience.

## EXPERIENCE

### Full-stack Developer

ByteLabyrinth

September 2021 - Present, Spain · Remote

- As a Full Stack Developer, I design and build end-to-end web applications using modern frontend frameworks, backend services, relational databases, cloud platforms and container orchestration. I create seamless user experiences through responsive frontend interfaces, while also implementing secure and efficient serverside logic and APIs. My role involves managing database schemas, optimizing application performance, and integrating cloud services to ensure high availability and scalability. Through code reviews and collaboration with the team, I deliver cutting-edge solutions that meet our clients' business objectives.
- Developed, tested and deployed various web applications, significantly improving overall system performance while reducing development and testing cycles. Implemented cloud-native architecture and containerized deployments to streamline scaling and deployment processes, substantially reducing time-to-production. Built intuitive user interfaces that enhanced user efficiency and drove improved customer satisfaction metrics.
- Architected and developed web applications using modern frontend frameworks, robust backend services, relational databases and cloud infrastructure to ensure optimal performance, scalability and high availability. Focused on clean architecture principles and industry best practices throughout the development lifecycle.

### Full-stack Developer

Orbital EOS

September 2023 - October 2024, Paterna, Valencian Community, Spain (Remote)

- Architected and developed a sophisticated frontend interface for a pipeline leak detection and monitoring system, seamlessly integrated with backend services.
- Designed and implemented an interactive dashboard with modern UI components, showcasing real-time metrics and complex data visualizations, enhancing decision-making capabilities for pipeline operators.
- Engineered advanced mapping functionality and geospatial features, enabling precise geographical representation of leaks and custom area of interest (AOI) selection.
- Developed a robust filtering system, allowing users to efficiently navigate and analyze large datasets of pipeline information across distributed databases.
- Implemented real-time data updates and bidirectional communication, ensuring instantaneous reflection of backend changes in the user interface.
- Optimized application performance through efficient state management and modern loading techniques, delivering responsive experiences even with data-heavy views.

## PROJECTS

### ByteLabyrinth: Custom Web Development Solutions Platform

Associated with ByteLabyrinth · [github.com/tandemresistentia/ByteLabyrinth](https://github.com/tandemresistentia/ByteLabyrinth)

- Built a comprehensive digital platform that automates web development service delivery, featuring an intuitive specification wizard, real-time cost estimation, and interactive project tracking dashboard.
- Developed a robust project management system with milestone tracking, secure payment processing, and real-time collaboration tools, enhancing transparency and efficiency throughout the development lifecycle.
- Implemented a scalable full-stack architecture with comprehensive security measures, automated workflow management, and integrated file handling capabilities to support seamless business operations.
- Created an intuitive portfolio showcase and template browser system, streamlining client onboarding and project specifications while significantly improving project delivery timelines and client satisfaction.

### Terra - Advanced Pipeline Leak Detection and Monitoring System

Associated with Orbital EOS

- Engineered an interactive dashboard with real-time metrics and data visualization, significantly enhancing operational data interpretation efficiency.

- Implemented advanced mapping functionality with precise geographical leak representation, enabling accurate spatial analysis and monitoring.
- Developed a comprehensive filtering system and custom Area of Interest (AOI) tools, streamlining complex data analysis processes for operators.
- Created detailed observation and leak analysis tools, substantially improving early detection rates and response times.
- Optimized database queries and frontend rendering, delivering enhanced performance and responsive user experience across data-heavy views.

### **Doneminder – Your Ultimate Task Management Solution**

Associated with ByteLabyrinth • [github.com/tandemresistentia/doneminder](https://github.com/tandemresistentia/doneminder)

- Developed a task management solution boosting productivity and accountability with deep integrations and an intuitive user interface, reducing task completion time by 35%.
- Designed the UX/UI of the platform using React ensuring users had an enjoyable experience while accomplishing tasks.
- Created and managed a documentation system to track bug fixes and feature requests to support the developing platform.

### **Footfab – Digital Footwear Retail Solution**

Associated with ByteLabyrinth • [github.com/tandemresistentia/Footfab](https://github.com/tandemresistentia/Footfab)

- Architected a modern e-commerce platform with advanced product discovery features, implementing robust search and filtering algorithms to enhance user product exploration.
- Developed a secure authentication system and streamlined checkout process, ensuring safe and frictionless transactions for customer satisfaction.
- Engineered a comprehensive inventory management system with real-time tracking and automated stock updates, optimizing operational efficiency.
- Implemented a responsive design with customer engagement tools, delivering a seamless shopping experience across all devices while boosting user interaction and retention.

### **SwimTrackt: Enhancing Swimming Fitness Tracking**

Associated with ByteLabyrinth • [github.com/tandemresistentia/Swimming-Fitness](https://github.com/tandemresistentia/Swimming-Fitness)

- Spearheaded development of a comprehensive fitness tracking system for swimmers, integrating IoT devices and web technologies to monitor key performance metrics including stroke rate, distance, timing, and speed analytics.
- Engineered a full-stack solution combining hardware sensors, Bluetooth connectivity, and web interfaces to deliver real-time performance data and insights for training optimization.
- Implemented an intuitive dashboard for performance visualization and progress tracking, enabling data-driven training decisions and technique refinement.

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## **EDUCATION**

### **Full stack developer**

Coursera

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## **CERTIFICATIONS**

### **Introduction to Docker: Build Your Own Portfolio Site**

Coursera • 57NKSS7JXXRC

### **Storing, Retrieving, and Processing JSON data with Python**

Coursera • UTHS44XE5XG6

### **AWS Cloud Technical Essentials**

Amazon Web Services (AWS) • LWKNZBCCPJBE

### **Data Scientist (2021 version) Career Path**

Codecademy • Science

### **Advanced Django: Building a Blog**

Coursera • JWVEQ9KZDFDA

### **Introduction to Microsoft Azure Cloud Services**

Microsoft • W7E6AYZEQ84H

### **Python Classes and Inheritance**

University of Michigan | Coursera • L6U2TWE6MJ3H

## Testing and Debugging Python

Coursera · RHKQ6TDBMBTM

## Architecting with Google Kubernetes Engine: Foundations

Google · JZPZ5BL94LBT

## Advanced Django: Advanced Django Rest Framework

Codio · MJKJH5FSSFK8

## Advanced React

Meta · E5ZHRZNNMEJG

## Introduction to HTML Coursera Project Network

Coursera · HQMNAD4ZKTL5

## Python Basics University of Michigan

University of Michigan | Coursera · 3A7BXW3FNY5U

## Advanced Styling with Responsive Design

University of Michigan | Coursera · ERHNJPEYEA2P

## Database Design and Basic SQL in PostgreSQL

University of Michigan | Coursera · XFYH2N2PCARU

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## SKILLS

User Interface Design, AWS Identity and Access Management (AWS IAM), Cloud Computing, Kubernetes, Full-Stack Development, Web Framework, Application Programming Interfaces (API), Unit Testing, Debugging, Responsive Web Design, Database Design, Test-Driven Development, Object-Oriented Programming (OOP), Data Science, GitHub, Microsoft Azure, Google Cloud Platform (GCP), Google Kubernetes Engine (GKE), AWS Security, Amazon Web Services (AWS), Docker, JSON, Bootstrap, Cascading Style Sheets (CSS), HTML5, JavaScript, Git, TypeScript, RxJS, Angular, React.js, Vue.js, Redux, React Router, Angular Material, NgRx, Vuex, Vue Router, Node.js, Express.js, Spring Boot, Spring Security, Spring Data JPA, Hibernate, Java, Maven, MongoDB, MySQL, PostgreSQL, MEAN Stack, MERN Stack, MEVN Stack, Spring Stack, Django, Python

English, Spanish