

# Luis Miguel Vargas Garrido

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## PROFESSIONAL SUMMARY

Senior Full-stack developer with extensive certifications in software engineering and cloud technologies. Demonstrated track record in:

- Building high-performance, scalable web applications
- Implementing efficient CI/CD and containerized deployments
- Optimizing system performance and database architecture
- Delivering complex geospatial and real-time data processing systems
- Leading agile teams and maintaining high code quality standards

### Core Competencies

- Full-Stack Development Architecture & Implementation
- Cloud-Native Solutions & DevOps Practices
- Geospatial Systems & Real-time Data Processing
- Performance Optimization & Scalable Systems Design
- Software Architecture & Technical Leadership
- Agile Methodologies & Team Management

## EXPERIENCE

**Full-stack Developer** September 2023 - October 2024, Paterna, Valencian Community, Spain (Remote)  
**Orbital EOS** •Architected and developed a sophisticated frontend interface for pipeline leak detection •Designed and implemented interactive dashboard with real-time metrics  
•Engineered advanced mapping functionality and geospatial features •Developed robust filtering system for large datasets  
•Implemented real-time updates and bidirectional communication  
•Optimized application performance through efficient state management

**Full-stack Developer** September 2021 - September 2023, Málaga, Spain (Remote)  
**ByteLabyrinth**  
•Architected and implemented cloud-native solutions to improve deployment efficiency  
•Established coding standards and review processes to enhance code quality  
•Implemented modern loading techniques and performance optimizations  
•Designed robust infrastructure focusing on system reliability and maintainability  
•Led technical discussions and code reviews to ensure project quality

## NOTABLE PROJECTS

**Terra - Advanced Pipeline Leak Detection and Monitoring System**  
Full-Stack Developer •Engineered real-time dashboard with complex data visualizations •Implemented advanced mapping functionality for geographical analysis •Developed comprehensive filtering system for complex data  
•Optimized database queries for high-performance data retrieval  
**ByteLabyrinth: Custom Web Development Solutions Platform**  
Full-Stack Developer •[github.com/tandemresistentia/ByteLabyrinth](https://github.com/tandemresistentia/ByteLabyrinth) •Built comprehensive service automation platform •Implemented secure payment processing system •Developed real-time collaboration features  
•Created intuitive project management dashboard  
**Doneminder - Your Ultimate Task Management Solution**  
Full-Stack Developer •[github.com/tandemresistentia/doneminder](https://github.com/tandemresistentia/doneminder) •Developed comprehensive task management system •Implemented real-time updates and notifications •Created intuitive user interface with React

- Established efficient documentation system

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

Full-Stack Developer•[github.com/tandemresistentia/Footfab](https://github.com/tandemresistentia/Footfab)

- Built modern e-commerce platform
- Implemented secure authentication system
- Developed inventory management system
- Created responsive design for all devices

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

Full-Stack Developer•[github.com/tandemresistentia/Swimming-Fitness](https://github.com/tandemresistentia/Swimming-Fitness)

- Developed comprehensive fitness tracking system
- Implemented IoT device integration
- Created performance visualization dashboard
- Engineered real-time data processing pipeline

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## **CERTIFICATIONS**

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### Search Engine Optimization (SEO)

University of California, Davis

- SEO Specialization (PLKDRUJ427J8)
- Introduction to Google SEO (4UJ76MW4LIPN)
- Google SEO Capstone Project (H9DAVF9AAAGQ)
- Advanced Content and Social Tactics to Optimize SEO (148R5QYVJN6Z)
- Google SEO Fundamentals (SFF2S4FoYLMQ)
- Optimizing a Website for Google Search (OG790J5I2SQU)

### Software Engineering & Architecture

Google

- Site Reliability Engineering: Measuring and Managing Reliability (UP169ZL7YE5W)

University of Alberta

- Object-Oriented Design (HB9RWGZ0XW0H)
- Design Patterns (VXVEY5NTCFPY)
- Software Architecture (SYKVoGKKIEQP)

### Cloud & DevOps

- AWS Cloud Technical Essentials - Amazon Web Services (LWKNZBCCPJBE)
- Introduction to Docker: Build Your Own Portfolio Site - Coursera (57NKSS7JXXRC)
- Architecting with Google Kubernetes Engine: Foundations - Google (JZPZ5BL94LBT)
- Introduction to Microsoft Azure Cloud Services - Microsoft (W7E6AYZEQ84H)

### Frontend Development

- Advanced React - Meta (E5ZHRZNNMEJG)
- Single Page Web Applications with AngularJS - Johns Hopkins University (034GRCVIJYPC)
- Fundamentals of VueJS - Board Infinity (F8CSPEO6K5L6)
- Advanced Styling with Responsive Design - University of Michigan (ERHNJPEYEA2P)
- Introduction to HTML - Coursera Project Network (HQMNA4ZKTL5)

### Backend Development

Various Institutions

- Building Scalable Java Microservices with Spring Boot and Spring Cloud - Google (RM6G5UWG1M4P)
- Developing Back-End Apps with Node.js and Express - IBM (5Z32KD4SGG88)
- Advanced Django: Advanced Django Rest Framework - Codio (MJKJH5FSSFK8)
- Advanced Django: Building a Blog - Coursera (JWVEQ9KZDFDA)

Board Infinity

- Backend Development using ASP.Net (5XHX96IXSMQW)
- ASP.NET for Experienced Developers Specialization (1JKVEPLTFR9R)
- C# for .NET Developers (MTNC59B72L47)
- Microservices and Deployment by using ASP.NET (8OT9YBRCTEPP)

## Database & Python

University of Michigan & Coursera

- Database Design and Basic SQL in PostgreSQL (XFYH2N2PCARU)
- Python Classes and Inheritance (L6U2TWE6MJ3H)
- Testing and Debugging Python (RHKQ6TDBMBTM)
- Storing, Retrieving, and Processing JSON data with Python (UTHS44XE5XG6)
- Python Basics (3A7BXW3FNY5U)

## Leadership & Methodologies

University of Colorado Boulder

- Agile Leadership Specialization (EI1ZG7UQHfY1)
- Agile Leadership Capstone (CS0ER5BZI34V)
- Agile Leadership: Introduction to Change (R44ZOZKU6HZG)
- Developing an Agile Team (46WELWHVQONC)
- Agile Leader Training (4LFZJQYOJ6EF)
- Agile Organization (KELDADYB08Y6)

## Data Science

- Data Scientist (2021 version) Career Path - Codecademy

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## SKILLS

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### Programming Languages & Core Technologies

- JavaScript/TypeScript, Python, Java, C#
- HTML5/CSS3, Git, REST APIs, GraphQL
- JSON Data Processing, Object-Oriented Programming

### Frontend Technologies

- Frameworks: React (Redux, Router), Angular (NgRx), Vue.js (Vuex)
- Libraries & Tools: Bootstrap, RxJS, Material UI, TailwindCSS
- Skills: State Management, PWA, WebSockets, Performance Optimization, Cross-browser Compatibility
- Advanced Responsive Design

### Backend Development

- Node.js/Express.js, Spring Boot, Django (REST Framework), ASP.NET, Hibernate
- Microservices Architecture, API Security, Server-side Rendering
- Authentication/Authorization, WebSocket Services
- Java Microservices with Spring Cloud
- .NET Development (C#, ASP.NET Core)

### Database & Data Management

- SQL: PostgreSQL, MySQL
- NoSQL: MongoDB
- Skills: Query Optimization, Schema Design, Data Modeling, Connection Pooling
- Advanced Database Design

### Cloud & DevOps

- Platforms: AWS (IAM, Security, Cloud Essentials), Azure, GCP
- Tools: Docker, Kubernetes (GKE), Git/GitHub, Maven
- CI/CD, Infrastructure as Code, Container Orchestration
- Site Reliability Engineering
- Google Cloud Platform (GKE)

### Development Practices & Architecture

- Test-Driven Development (TDD), Unit Testing
- Clean Architecture, Design Patterns, Code Review
- OOP, API Development, Documentation
- Software Architecture Patterns
- Python Testing and Debugging

#### Specialized Skills

- Data Analytics: Data Science, Visualization, Real-time Analytics
- Geospatial: Interactive Mapping, Location Services, AOI Tools
- Real-time Systems: Event-Driven Architecture, Bidirectional Communication
- SEO Optimization: Content Strategy, Google SEO, Technical SEO

#### Methodologies & Management

- Agile Development, Scrum, Kanban
- Project Planning, Risk Management
- Technical Documentation, Team Collaboration
- Agile Leadership and Team Development
- Change Management

#### Languages

- Spanish (Native)
- English (Professional working proficiency)