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
ByteLabyrinth   **September 2021 - Present, Spain · Remote**
· 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

Full-stack Developer
Orbital EOS   **September 2023 - October 2024, Paterna, Valencian Community, Spain (Remote)**
· 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

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

CERTIFICATIONS

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 (SFF2S4F0YLQM)
- 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 (SYKV0GKKIEQP)

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 (HQMNAD4ZKTL5)

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

SKILLS

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)