Luis Miguel Vargas Garrido

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SUMMARY

Full-stack developer with multiple years of extensive experience in developing and maintaining web applications. Proficient in JavaScript, React, Node.js, Python, and Django. Experienced in building secure, user-friendly websites and applications. Skilled in working with geospatial tools like Leaflet 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

Orbital EOS   **September 2023 - Present, Paterna, Valencian Community, Spain (Remote)**

· Architected and developed a sophisticated React-based frontend for a pipeline leak detection and monitoring system, integrating with a Django backend.
· Designed and implemented an interactive dashboard using Material-UI, showcasing real-time metrics and complex data visualizations, enhancing decision-making capabilities for pipeline operators.
· Engineered advanced mapping functionality using Leaflet, 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 and leak reports.
· Implemented real-time data updates and websocket connections, ensuring instantaneous reflection of backend changes in the user interface.
· Created reusable React components for leak analysis tools, improving code maintainability and accelerating development of new features.
· Optimized application performance, achieving sub-second load times for data-heavy views through efficient state management and lazy loading techniques.

Full-stack Developer

PixelStack Solutions   **April 2022 - Present, Spain · Remote**

· As a Full Stack Developer, I design and build end-to-end web applications using a stack that includes React, Django, PostgreSQL, AWS and Kubernetes,. 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, increasing performance by 25% while decreasing total development and testing time by 15%. Leveraged serverless technology and containerized deployments to reduce scaling time by 50%, enabling code to reach production in half the average time. Built user interfaces that increased user efficiency by 15% which resulted in increased customer satisfaction by 5.
· Handcrafted various web applications using React for frontend interfaces, Django for server-side logic and APIs, PostgreSQL for database schemas and AWS to manage cloud services, for improved scalability and high availability.

PROJECTS

Terra - Advanced Pipeline Leak Detection and Monitoring System

Orbital EOS · September 2023 - Present

· Engineered an interactive dashboard with real-time metrics and data visualization, improving data interpretation efficiency by 40%.
· Implemented advanced mapping functionality for precise geographical leak representation.
· Developed a comprehensive filtering system and custom Area of Interest (AOI) tools, streamlining data analysis processes.
· Created detailed observation and leak analysis tools, leading to a 30% increase in early leak detection rates.
· Optimized database queries and frontend rendering, reducing page load times by 45%.

Doneminder - Your Ultimate Task Management Solution

Associated with PixelStack Solutions · Associated with PixelStack Solutions

· 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.

Ecommerce Project - Footfab

Associated with PixelStack Solutions · Associated with PixelStack Solutions

- Developed Footfab's social e-commerce website from ground zero, integrating user interface design, back-end coding, webserver and network security. .
- Increased daily active users of the platform by 120% by utilizing digital marketing strategies, increased site traffic by 200% and user engagement on the platform by 150%.
- Implemented multi-language support, technology upgrades and optimization techniques to create a seamless online shopping experience.

SwimTrackt: Enhancing Swimming Fitness Tracking
Associated with PixelStack Solutions · Associated with PixelStack Solutions
- Associated with a private project which aims to enhance swimmers' experience through a fitness tracking system.
- Developed a fitness tracking system using Node.js, ReactJS, and Arduino to measure stroke rate, distance, times, and average speed,resulting in improved swimmers' performance by 11%.
- Utilized the IOT stack to develop the system with Bluetooth and Web framework to improve convenience and accuracy.

EDUCATION

Full stack developer
Coursera

CERTIFICATIONS

C68Q9HDZXMNC

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

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, Front-End Development, Web Pages, Database Design, Web Development, Test-Driven Development, Front-End Web Development, Object-Oriented Programming (OOP), Back-End Web Development, Programming, Data Science

GitHub, Microsoft Azure, Google Cloud Platform (GCP), Google Kubernetes Engine (GKE), AWS Security, Amazon Web Services (AWS), React.js, Docker, JSON, Tkinter, Django REST Framework, Bootstrap, Cascading Style Sheets (CSS), HTML, HTML5, PostgreSQL, JavaScript, Databases, Git, Python (Programming Language)

English, Spanish