



Jonathan Ruiz


Software Engineer

With over two decades of experience, I have built a broad skill set in programming languages such as C/C++, NodeJS, C#, Java, PHP and Python, as well as cloud platforms like AWS, Azure and GCP.

Throughout my career, I've had the opportunity to lead technical teams and design scalable infrastructures. I've worked on implementing CI/CD pipelines, automating deployment processes and developing cost-effective cloud solutions. My roles as a DevOps Tech Lead, FullStack Developer and Senior Software Engineer have helped me understand the importance of optimizing performance and reliability for various applications.

In addition to my technical expertise, I focus on strategic leadership, IT strategy and effective team management. My experience spans diverse projects, from game development to e-commerce platforms and IoT devices, demonstrating my adaptability and commitment to delivering practical solutions.

I am passionate about continuous learning and improving my skills to drive innovation and efficiency, ensuring the delivery of high-quality and reliable software solutions.

 Computer Science degree
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Programming Languages

Python PHP JavaScript
TypeScript JAVA C/C++
C#

Cloud/DevOps/Platform

AWS AWS Linux
Jenkins Gitlab CI
Azure Terraform
Kubernetes Ansible

Frameworks

Angular Nest.js
Laravel flask Symfony
Spring Next.js Vue.js
Node.js

Other Skills:

OVH Git IT Strategy Team Lead Unity Unreal Business Development
Blender DataDog Kibana Docker Bash Nginx Redis TDD GCP
PostgreSQL CSS MaterialUI Lens Cucumber Bitbucket Inertia Vite
MySQL Tailwind Java JBoss Qt CMake VirtualBox Boost
Team Management .NET firmware SoC Flask NFC GSM 6LowPan IoT
Express.js BLE iOS PWA Webbluetooth Bamboo PHPUnit PHING Nagios
Newrelic Siege Wordpress Apache Powershell MySQL Galera Magento
Pen Testing Puppet Bootstrap JQuery Vagrant Android SAML SourceSafe
SDK Development Drupal OpenCV QT ROS ML Neural Networks VTK/ITK
DICOM Swift HTML SDK development CodeIgniter Typo3 JQuery
Subversion ORACLE ANSI C AWK Visual Basic 5.0 SAP AIX CATIA

Work Experience

Nexxyo Labs — Mar 2024 - Jul 2024 (5 Months)

+ DevOps Tech Lead

in Blink Galaxy

- Redesigned infrastructure using IaC with **Jenkins**, **Kubernetes**, **Terraform**, **Packer**, and **Azure**.
- Created CI/CD pipelines for infrastructure deployment.
- Supported other teams with advice on **Azure**/Cloud infrastructure.

Kubernetes Terraform Jenkins Azure OVH Git IT Strategy Team Lead

Bitheater Ltd (Contract) — Dec 2023 - Mar 2023 (2 Months)

+ Technical Lead @BouncyBrain

in FullSteam: Fluffy X Machina

- Led technical development of BouncyBrain game MVP, securing initial investment.
- Defined technical strategy and coding workflows for BouncyBrain.
- Designed and programmed game MVP using **Unity** and **C#**.
- Managed code reviews and ensured high-quality standards.
- Provided strategic leadership in **business development** and **IT strategy**.

Unity C# Git IT Strategy Team Lead Kubernetes Jenkins

Senior DevOps Engineer

in Star Trek Fleet Command

- Achieved 30% infrastructure cost reduction and 20% Redislabs cost reduction.
- Enhanced Dev environments with Twingate & Okta SSO integration.
- Successfully migrated Jenkins from 1.0 to 2.0.
- Designed and implemented AWS infrastructure using Terraform (ECS, Lambda, DynamoDB).
- Optimized infrastructure for performance, scalability, and cost-efficiency with DataDog, Cloudwatch, & Kibana metrics.
- Provided AWS expertise and best practices guidance to teams.
- Managed Docker image creation, CI/CD pipelines (Jenkins, GitLab CI), and developed Python scripts for AWS Lambda.
- Established effective monitoring with DataDog and Kibana for early issue detection.

AWS Terraform Jenkins Python DataDog Docker Linux Gitlab CI
Git Redis

Bitheater Ltd (Contract)

Dec 2013 - Jul 2022 (8 Years 8 Months)

Senior Software Engineer @Dovetailgames

in Train Sim World 4

- Designed REST API for game and Creators Club website.
- Led application development and refactoring using Gitlab CI, Cucumber, Nest, and Next.js.
- Performed ongoing maintenance to ensure optimal application functionality and user experience.
- Implemented CI/CD workflows with Gitlab CI and Docker.
- Optimized Linux and Nginx infrastructure for improved performance and cost-efficiency.
- Managed Google Cloud Services (GCP) focusing on App Engine, Docker, and Kubernetes.

Kubernetes TDD GCP PostgreSQL Docker Gitlab CI Kubernetes
Nest.js TypeScript Next.js Node.js Git



Lead Full Stack Developer @Blue Ocean Sustainability

in Truecarbon Score

- Created and implemented API for application migration and M2M connections.
- Led design and development of Truecarbon Score app with Laravel, Vue.js, and Inertia.
- Provided project owner reporting for transparent project communication.
- Managed team tasks and progress to meet project timelines.
- Managed AWS services, focusing on Beanstalk for deployment and scalability.

Laravel Vue.js TypeScript Bash Docker AWS Tailwind Git



Full Stack Developer @Alfatec

in SINA HIS (Hospital Information System)

- Developed REST API and applications using **JAVA**, **Spring**, and **Angular** for high-quality software delivery.
- Refactored **MySQL** codebase to enhance maintainability and readability.
- Implemented key features with **JBoss** (Firefly) to expand the company's customer base.

Spring **Java** **MySQL** **JBoss** **TDD** **Git** **TypeScript**



Lead Software Engineer @Indra

- Led migration from Microsoft libs to cross-platform (**Linux** + Windows) for Intelligent Traffic System (ITS).
- Refactored and optimized **C/C++** codebase for better maintainability and performance.
- Utilized **C++**, **Qt**, and **CMake** for successful migration across **Linux** and Windows.
- Implemented **Boost** libraries to enhance ITS functionality.
- Collaborated on platform-specific challenges for seamless integration.
- Achieved **Linux** compatibility for tenders requiring **Linux** support.
- Managed press articles: - Article 1: <https://bit.ly/2Z11mgC> - Article 2: <https://bit.ly/30AVGva>

C/C++ **Qt** **CMake** **Bash** **Linux** **Boost** **Team Management** **Team Lead** **Git**
.NET



Lead Software Engineer

- Led **IoT** device prototyping using **Python** on Raspberry Pi and C on nRF51 **SoC**.
- Performed nRF51 **firmware** maintenance and upgrades.
- Implemented **IoT** business logic on Raspberry Pi using **Python** for rapid testing and feature additions.
- Conducted extensive testing of **NFC**, **6LowPan**, **GSM**, and TCP/IP for internet access, informing patent requests.
- Filed patent requests to protect developed mechanisms for data exchange (see Certifications section for links).

firmware **SoC** **C/C++** **Python** **Flask** **NFC** **GSM** **6LowPan** **IoT** **Node.js**
Express.js **BLE** **Team Lead** **Git** **iOS** **PWA** **Webbluetooth**



Lead DevOps Engineer

- Automated and maintained E-Commerce platform infrastructure for optimal performance and reliability.
- Developed CI/CD processes for Progressive Web App development, enabling rapid releases to staging and production.
- Implemented backup and disaster recovery processes to meet ISO standards certifications.
- Managed and configured Atlassian platform tools: **GIT/Bitbucket**, **Bamboo**, and Jira.

Ansible **Docker** **Bamboo** **Azure** **Linux** **Nagios** **Newrelic** **Team Lead**
Bash **Wordpress** **Git** **Apache**



Cloud Engineer

- Led design and implementation of international e-commerce platform's scalable and reliable infrastructure.
- Orchestrated successful migration from on-premise to cloud-based architecture with meticulous planning and testing.
- Resolved networking issues and enhanced stability using advanced troubleshooting techniques.
- Implemented proactive measures to continuously enhance system infrastructure for evolving business and technological needs.

Azure Linux Apache MySQL Galera Magento Nagios Newrelic Bash
Pen Testing Git



Full Stack Developer @Rocket Internet GmbH

in Lendico

- Developed P2B lending platform emphasizing functionality, security, and scalability.
- Refactored application to maintain compatibility with P2P lending platform, using a unified codebase.

Linux Symfony Bootstrap JQuery Git

Telefonica/Movistar

Dec 2012 - Dec 2013 (1 Years 1 Months)



Lead Android Developer

in Por Ser Movistar

- Led development of native **Android** app with SSO (**SAML**) for 20M Movistar clients.
- Published **Android** app for seamless access to exclusive offers.
- Developed deployment tools and statistics compilation for streamlined processes.
- Configured Apache servers for performance and security.
- Implemented high-availability systems for continuous service availability.

Android Java SAML Team Lead SourceSafe



Lead Full Stack Developer

in Por Ser Movistar

- Led development of promotional site and REST API for exclusive offers and coupons for Movistar clients.
- Created web platform for Movistar customers to access exclusive offers and coupons.
- Developed REST service as foundation for future mobile app development.
- Led Android app development for seamless user access to offers.
- Contributed to web development using PHP/**Symfony**, REST services, and SSO (**SAML**) integration.
- Developed SSO SDK for integration with Movistar's **SAML** identity provider.
- Implemented high-availability systems for continuous service availability.

SDK Development Symfony JQuery JavaScript Linux Apache MySQL
SAML Nginx Team Lead Git



Full Stack Developer

- Developed a web application for the management of the university's research projects using **Drupal**

Drupal Git



Senior Software Engineer

- Developed applications for humanoid robotics, contributing to field advancements.
- Implemented neural network training systems for humanoid robotics.
- Developed computer vision applications with **OpenCV**.
- Contributed to projects documented at IEEE and Robinlab.
- Worked on the humanoid torso robot project at Robinlab.

C/C++ OpenCV QT CMake Git Neural Networks



Senior Software Engineer

- Managed and visualized **DICOM** images with **VTK/ITK** libraries for medical image processing.
- Developed Dental **DICOM** Images Analysis application for specialized medical imaging.
- Created Mitsubishi Robotic Arm application for dental procedure automation.

VTK/ITK DICOM Swift OpenCV Java Git C/C++



Full Stack Developer

- Designed and maintained internal applications for enterprise management.
- Managed databases and email servers for seamless operation of internal applications using **Linux**, **Apache**, and **MySQL**.
- Developed Client/Server Applications to meet business requirements, utilizing **PHP**.

Linux Apache MySQL PHP Bash CSS



Full Stack Developer

- Developed **PHP** SDK for building CMS managed web applications.
- Contributed to services at an interactive communication agency.
- Designed and developed websites for seamless user experience.
- Created multimedia content for engaging online experiences.
- Provided internet consulting services for strategic online presence.
- Contributed to branding, positioning, and corporate identity online.
- Resolved issues in enterprise web portals to maintain functionality.
- Developed enterprise web portals using **PHP** and **CodeIgniter**, demonstrating expertise in **Linux**, **Apache**, **MySQL**, and **PHP**.

SDK development Linux Apache MySQL PHP CodeIgniter Typo3 CSS
JavaScript JQuery Git

Full Stack Developer

- Improved and maintained company's CMS SDK.
- Conducted PHP web development for dynamic and interactive websites.
- Developed CMS solutions using MySQL, Linux, and PHP5, focusing on eCommerce and MVC architecture.
- Utilized Object-Oriented Programming (OOP) principles for efficient code development.
- Monitored and troubleshooted web and mail servers for performance and reliability.
- Contributed to development, maintenance, and integration of various websites.
- Developed and deployed SOAP web services to enhance functionality.
- Administered CentOS Linux servers for seamless operation.

SDK development

PHP

Jquery

JavaScript

Subversion

Full Stack Developer

- Developed warehouse and providers management application with PHP and MySQL.
- Created non-conformance reports (NCR) management application using PHP, HTML, CSS, and MySQL.
- Contributed to development of enterprise internal network services, including intranet and partner data transfer.
- Resolved technical issues, conducted troubleshooting, and developed tools for efficiency.
- Designed graphic user interfaces for data consultation, modification, and insertion.
- Developed data exchange interface between Oracle and MySQL.
- Created autoclave management application with Visual Basic 5.0.
- Facilitated information exchange between partners and company, including SAP interfaces.

Linux

PHP

CSS

JavaScript

Jquery

MySQL

Apache

Subversion

Systems Administrator

- Administered AIX/UNIX/Linux servers, overseeing various services for optimal performance.
- Configured and tuned Apache2, including mod_proxy, mod_php, and virtual domains, for efficient web services.
- Performed troubleshooting, upgrades, and configuration of services/systems on AIX/UNIX/Linux/Solaris servers.
- Managed databases to ensure integrity and availability for critical operations.
- Implemented and maintained MySQL backup system for data integrity.
- Provided technical support for CATIA users.

Linux



Freelance Teacher

- Conducted training sessions for UNIX shell scripting.
- Delivered comprehensive Master classes on C/C++ and Linux sponsored by the Madrid Council.
- Taught application development course with Java, sponsored by the Madrid Council.

Linux

Bash

C/C++

Java