




JOSEPH VARGAS


Computer Engineering
student

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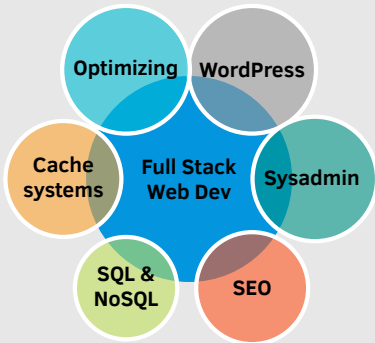
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Skills

Overview



Programming

JavaScript / PHP / HTML5 / CSS3
Python
C++
Java

Technologies

GNU/Linux
Git
Angular 4
Ionic
WordPress
Apache (LAMP stack)
Nginx
Sass
MariaDB / MySQL
Redis
Varnish Cache
NodeJS
Arduino
L^AT_EX

Education

2016 - Today **BSc, Computer Engineering**
Cartago, Costa Rica

Instituto Tecnológico de Costa Rica

2014 - 2015 **Diploma Programme, International Baccalaureate**
Palmares, Costa Rica

BI Palmares

Third best score nationwide for the Nov 2015 examination

Experience

2013 -
Today

Co-director & Freelance Developer / Sysadmin

Centro Pokémon

Big gaming related website with more than 1 000 000 monthly users

- Led both back-end and front-end development and maintenance.
- Designed and implemented a modern responsive design (HTML/CSS/JS) that works on both desktop and mobile devices.
- Optimized website content and structure for search engines and social networks.
- Wrote more than 900 articles and guides for the website.
- Optimized back-end technologies including WordPress and PHP scripts and tweaked web server settings for better performance.
- Used NodeJS and WebSockets to deliver messages in real-time to users while ensuring high performance.
- Debugged problematic scripts and application components that could cause high load on the server.
- Replaced SQL databases with NoSQL software such as Redis for low-latency transient and long-term data storage.
- Implemented security techniques to prevent DoS attacks, SQL injections, XSS, brute force and other kinds of exploits.
- Integrated a combination of caching technologies such as Varnish, ensuring high availability of a dynamic web application with more than 2 million monthly users and 10 000 concurrent users.
- Managed communities of more than 100 000 users.

Projects

2017

XeonWars

Instituto Tecnológico de Costa Rica

Shoot 'em up game for Linux developed in C++ which interacts with a mobile app through MQTT.

2016

SMGuide

Freelance

Ionic 2 / Angular mobile application that connects to a WordPress-powered rest API.

2016

Moncha

Instituto Tecnológico de Costa Rica

PoS system made for restaurants made in Ionic.

Awards and participations

2017

CONESCAPAN XXXVI (Participation)

Ciudad de Panamá, Panamá

Engineering congress organized by Central American students.

2015

VERMUN 2015 (Honorific mention)

Instituto Tecnológico de Monterrey

Veracruz, México

Second place from the Security Council at the 2015 Model United Nations.