

JOSEPH VARGAS

Computer Engineering
student



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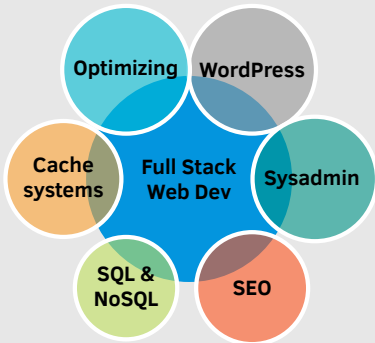
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JosephTico

Skills

Overview



Programming

0 LOC —————> 5000 LOC

HTML5 • CSS3 • JS • PHP

SQL

C++ • Java • Python

Technologies

GNU/Linux

Git

Vue

Ionic

WordPress

Apache (LAMP stack)

Nginx

Progressive web apps

Sass

MariaDB / MySQL

Redis

Varnish Cache

NodeJS

Arduino

LaTeX

Education

2016 - Today **BEng., Computer Engineering**
Cartago, Costa Rica

Instituto Tecnológico de Costa Rica

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

BI Palmares

Experience

2013 -
Today

Co-director & Freelance Developer / Sysadmin

Centro Pokémon

- 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, ensured 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.

2017 -
2018

App developer

GoTouch

- Development of a cross-platform mobile app to help univeristy staff manage and store documents related to the accreditation process.

Awards and participations

2019

Hack the Farm (2nd place)

San José, Costa Rica

Honoric mention at the Hack the Farm hackathon; proposal of a progressive web app and tracking system to promote organic Costa Rican exports in Europe.

2017

CONESCAPAN XXXVI (Participation)

Ciudad de Panamá, Panamá

Engineering congress organized by Central American students

2015

VERMUN 2015 (Honoric mention)

Instituto Tecnológico de Monterrey

Veracruz, México

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

Soft Skills

- Led both back-end and front-end development and maintenance.
- Quick development and prototyping of software solutions.
- Problem solving; how to make users actually want to use the software solutions.