

# JOSEPH VARGAS

Computer Engineering  
student



t.me/JosephCR



josvar.com



josephvb11@gmail.com



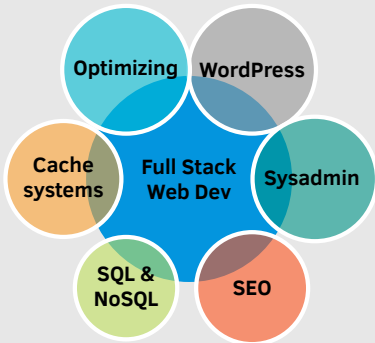
/in/josephvargas



JosephTico

## Skills

### Overview



### Programming

0 LOC —————> 5000 LOC

HTML5 • CSS3 • JS • PHP

SQL

C++ • Java • Python

## Technologies

GNU/Linux

Git

Angular 4

Ionic

WordPress

Apache (LAMP stack)

Nginx

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

Third best score nationwide for the Nov 2015 examination

## 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.

## Projects

## 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

## Soft Skills

- Led both back-end and front-end development and maintenance.
- Designed and implemented a modern responsive