Alvaro Segura Del Barco

Networks & systems administrator

contact

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Costa Rica

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http://wp.me/4uJoK
http://git.io/DM8URA
http://rngkll.github.io

languages

spanish mother
tongue
english fluency

programming

Python,
Shell scripting, C,
C++, Tcl, LaTeX, html,
Verilog, java

experience

| 2015–2018 | **Akamai technologies** | Escazu, Costa Rica |

Solutions architect

Create, modify and consult different customers, first in the media industry the as a Carrier product integration specialist, working with Licensed CDN and DNS systems.

Manage the innovation laboratory in Costa Rica, represent Akamai in the "Espacios de innovación y tecnología aplicada" CINDE (Costa Rican investment promotion agency) program.

Detailed achievements:

- Developed a testing framework to test Akamai's customers configurations.
- Developed tools to push media traffic to the platform to test customers configurations.
- SA assigned to the AURA project, Licensed CDN Akamai product.
- Part of the starting group of the X-Akamai-Project initiative.
- Akamai EDGE 2017 speaker and expert bar consultant.
- Akamai AIRs 2018 presenter.
- Successfully integrated multiple LCDN and AnswerX with the carriers team.

| 2014–2015 | **Softtek** | Heredia, Costa Rica |

Embedded developer

C developer for the HP wired networking devices

Detailed achievements:

- Developed debugging commands for HP networking devices.
- Migrated Uboot for the CPU architecture in the network devices.

| 2013–2014 | **Softtek** | Heredia, Costa Rica |

Senior QA Engineer

Triage and Test-case programming for the upcoming software for HP wired networking devices.

Rehab(rewrite test case according to programming standards).

Detailed achievements:

- Developed tools to reduce triage times
  - Tool to link a list of issues to a specific bug ID
  - Tool to get information of the issues from CIT(bug tracking interface) and generate list of IDs to link
- Developed tools to reduce rehab process times
  - Tool to parse the test case steps and update the list in the beginning of the test case

| 2010–2013 | **Abax Asesores S.A.** | San José, Costa Rica |

Network and Systems administrator

Platforms integration and support for clients, mostly based on free software

Internal infrastructure support. LAMP, LAPP, VPN, DNS and DHCP servers installation and configuration, Web stack optimization.

Detailed achievements:

- Real time monitoring platform for in-house and clients servers, using Nagios and Icinga
  - Platform integration
  - Nagios Plug-in development using python and shell scripting
- High traffic optimization for several mayor communication clients using tools as Varnish reverse proxy and memcache

| 2008-2011 | **Universidad de Costa Rica** | San José, Costa Rica |

Networks and systems administrator

Network design and support, personal computers supporting GNU/Linux and Microsoft Windows, Gnu/Linux Servers support.

Detailed achievements:

- Network redesign
    - Network segmentation using VLANs to separate users and traffic
    - Public network creation with private IP addresses for regular users and laboratories
- Virtual server implementation
    - Migrated all the physical servers to virtual servers first using Xen and then Kvm
    - Improve servers uptime by migrating virtual servers from their physical hosts
    - Created separated virtual machines for needed services as web cache, mail, proxy, file server, DHCP, DNS
    - Installation of a debian distribution mirror with support for most of the architectures at http://debian.emate.ucr.ac.cr to use in laboratory with powerpc machines

| 2008 | **Colegio de Biólogos de Costa Rica** | San José, Costa Rica |

Solutions integration

Virtual Servers implementation using Xen Virtualization software, various Services implementation such as DNS , DHCP, MySQL and WEB, using GNU/Linux systems.

| 2006-2008 | **Electric engineering, Universidad de Costa Rica** | San José, Costa Rica |

Network assistant

Help to develop and manage network infrastructure.

freelance experience

2005-2014   Costa Rica

Solutions in networking and servers for several clients as:
- Fundación Acceso
  - Design and install the laboratories for the "Superadas" project that helps children in social risk
- Fundación Demuca
- Colegio La Salle
- Colegio de Biólogos de Costa Rica
- Universidad de Costa Rica

education

2005   **Cisco Certified Networking Associate (CCNA)**   Network academy, UCR
Modules 1-4, in process of certification

2004   **Electric Engineering**   Universidad De Costa Rica
Senior student of the computers and networks study plan

2001   **Electronic Technician**   Instituto Tecnológico de Costa Rica

interests

professional: open hardware, electronics, free software, networks, cloud computing, virtulization, programming, **personal:** basketball, snorkeling , cooking, running, jaque-respeis.org.