Pablo Averbuj

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Issaquah, WA

Experience

Programming Languages: Golang, Ruby/Rails, Java, Python, Perl, Shell, Objective-C, C, PHP.

Operating Systems: Linux (Redhat-based and Debian/Ubuntu-based), Mac OS X, iOS.

Databases: Postgres, SQLite, MySQL, Oracle.

Publications

Pablo Averbuj, Mark J. Muehl, Vijay Gill. *"Selecting an instance of a resource using network routability information"*. **USPTO Patent #8,082,348**. **December 2005**.

Education

OSCP, March 2015
Offensive Security

CISSP, January 2015.
Certificate/ID #: 508150
(ISC)^2

RHCE, April 2004.
Certification ID: 110-890-365
RedHat

Other Information

Speak Spanish fluently (including translation).

Former Debian Developer (a Linux distribution) http://www.debian.org/.

Professional Objective

To solve interesting business problems with technology and smart people from whom I can continue learning.

Employment History

Software Engineer
Meta (http://www.meta.com/)
July 2019–Present

Security and identity tech lead (DRI) for Meta's VR and wearables devices, designing end-to-end device trust and provisioning across backend services, Android/HLOS, and secure enclaves.

Highlights:

- Delivered next-generation remote provisioning that reduces reliance on factory-provisioned secrets, enabling 5+ device types to launch
- Led secure bringup across multiple device platforms, aligning OS/BSP, security, and infrastructure teams on identity and attestation requirements
- Diagnosed and resolved a large-scale device security/reliability risk end-to-end (diagnostics, rollout, tooling), restoring devices remotely and avoiding significant replacement costs
- Led high-severity incident response and proactive risk discovery that prevented launch blockers and cut recurring incidents; built security engineering standards and mentored engineers

Principal Member of Technical Staff
Salesforce.com (http://www.salesforce.com/)
May 2015–July 2019

Leading infrastructure transformation across various projects: automating datacenter builds, replacing hardware loadbalancers with a commodity software solution

Highlights:

- Product ownership of software load balancing solution using open source data plane and golang based control plane
- Collaborate with service owners across the company to convert their legacy build process to new platform
- Coordinate with new datacenter/cluster teams to leverage new platform as roles were certified
- Work with security and compliance teams to certify platform for high security environment

Architect / Sr Technologist
Neustar, Inc. (http://www.neustar.biz/)
March 2010–April 2015

Set technical direction for SiteProtect, Neustar's on-demand DDoS mitigation service, and for Business IT's enterprise systems (networks, security, ITSM, directory/email, CRM).

Highlights:

- Designed next-generation distributed SiteProtect architecture
- Led migration of on-prem email security to a cloud-based solution
- Redesigned and secured funding for an MPLS overhaul, saving $2MM+ over 3 years
- Designed and implemented systems to move to cloud services (EC2, DynamoDB, Ruby, Shell)
- Conceived, designed, and implemented an iOS app for employees

Principal Engineer
Comcast Corporation (http://www.comcast.com/)
November 2008–March 2010

Core Infrastructure team: tooling for datacenter, security, network, video, mail, and VOIP operations.

Highlights:

- Designed and built CADA, a cross-platform authentication system (Java/Rails/Thrift over OpenLDAP, RSA, Radius) replacing two legacy systems
- Evaluated and rolled out an ITSM/workflow solution to coordinate datacenter deployments across network, hardware, and power teams
- Built a lightweight Linux/Solaris system-discovery tool to reconcile monitored vs. actually-deployed inventory

Operations Architect
AOL, LLC [Video Technologies] (http://video.aol.com/)
December 2006–October 2008

Owned operations and development decisions for the video.aol.com portal: streaming (incl. CNN), encoding, playback, and content management.

Highlights:

- Led design and implementation bridging Sony Bravia (BVIL) TVs with AOL video assets via a protocol translation layer
- Led the redesign of AOL Video APIs to industry-standard practices, opening them for public/partner consumption

Sr. Systems Programmer
AOL, LLC [Internet Operations] (http://www.aol.com/)
December 2003–December 2006

Built automation, monitoring, and performance-metrics tooling deployed across 6000+ systems worldwide.

Highlights:

- Patented traffic load-balancing system using BGP, Edgescape, and resource utilization data (patent #8082348)
- Wrote a Linux kernel/iptables module implementing RFC 2385 (BGP session protection via TCP MD5)