ALAN VERDUGO Tech lead, Security architect

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COMPETENCES

Python, FastAPI, PyTest, Shell scripting, JavaScript, NodeJS Programming Pandas, Matplotlib, Jupyter notebooks, Google Analytics Data analysis

Databases MySQL, DB2, PostgreSQL, MongoDB

Security WhiteSource, Hashicorp Vault, AppScan on Cloud

Others Docker, Git, Travis CI, GitHub Actions, OpenShift, Markdown, LTcX, Jira, Agile methodologies

PROFESSIONAL EXPERIENCE

November 2018 Present

Tech lead, Security architect, IBM

- > Led and mentored a team of 20 developers in order to build, maintain and improve applications which processed IBM's marketing data.
- > Designed, developed, tested and documented code for the migration of monolithic ETL processes into a continuously integrated DevSecOps pipeline based on RedHat's OpenShift.
- > Collaborated with leaders from other areas in order to review practices, share knowledge and learned lessons, and generally help each other in common goals.
- > Conducted interviews and selection of new team members, including managing their onboarding process to ensure they were ready to contribute to the team.
- > Designed and implemented the secrets-sharing strategy of all our applications with Hashicorp Vault.
- > By implementing CI/CD tools, incremented the development team's throughput while reducing the error rates and migrating from an laaS architecture to a cloud and container-based architecture.
- > Designed and implemented our monitoring strategy of all all our applications with New Relic.
- > Presented external and company-wide training sessions in topics like automation, monitoring, security, containers, documentation and development best practices.
- > Member of IBM's core Python team in Mexico, presenting courses, conferences and hackatons.
- > Co-authored two IBM Redbooks (refer to the publications section below).

Python | OpenShift | FastAPI | GitHub | Docker | Pandas | Travis CI | Hashicorp Vault | DB2 | PostgreSQL | RHEL | Jira Bandit New Relic LogDNA

June 2018 November 2018

Software engineering team lead, AMDOCS

- > Led and mentored a development team across multiple geographies.
- > Processed, analyzed and reported the data of a major telecommunications company.

Python Spark SQL ETL Cassandra Qlikview

June 2014 June 2018

Software engineer, IBM

> Collected, processed, curated and reported all of the billing data for IBM's AppOps Team. By enhancing existing code and developing new programs, I automated the processes and increased the revenue of the team in thousands of dollars per month.

Python | SQL | ETL | GitHub | IBM Smart Cloud Cost Manager | IBM Tivoli Usage and Accounting Manager | DB2 |

April 2013 June 2014

System administrator, IBM

> Supporting, troubleshooting, installing, configuring, migrating and developing all kinds of software and servers. Specialized in the Unix platform and its variants (GNU/Linux, AIX, etc.)

RHEL AIX Websphere Application Server Nagios

September 2012

April 2013

System administrator, ELECTRONIC ARTS

> Launching, supporting, troubleshooting, and enhancing thousands of servers and applications in the cloud, used for videogame traffic and data processing for millions of concurrent users.

Debian Python MySQL Nagios

November 2007 September 2012

Programmer analyst, AUTOZONE

- > Troubleshooting, debugging, maintaining, developing and enhancing systems in a wide variety of programming languages and operating systems in a production environment for a Fortune 500 company.
- > Received two WITTDJR (What it takes to do the job right) awards for delivering an excellent customer service and one Extra Miller award for "going above and beyond the call of duty, exceeding expectations and consistently doing more than expected."

PowerBuilder SQL C Java Perl Bash Jira MySQL Informix PostgreSQL



Valid from: Sept. 2016 Verification code: DQPR3E9HCDVE1WSN CompTIA Linux+

> LPIC-1 Valid: Sept. 2016 - Sept. 2021 LPI ID: LPI000368945 Verification code: pfbbjhavvj

Google Analytics Individual Qualification Valid: Jan. 2018 - Jul. 2019

COURSEWORK AND TRAINING

Google Data Engineering on Google Cloud Platform Specialization

IBM Think like a hacker

IBM IBM DevSecOps Explorer - Security and Automation for DevOps

University of California at San Diego Python for data science

> Applied Data Science with Python **IBM** IBM IBM Cloud Kubernetes Service

IBM DevOps Essentials

IBM Cybersecurity Threat Intelligence

IBM Open Source Contributor

IBM Mentor IBM

IBM IBM Recognized Teacher/Educator

IBM IBM Cloud Garage Test-Driven Development (TDD)



December 2021 June 2022

Endurance mission, IBM

> The Endurance CubeSat mission is about making space accessible to everyone on this planet - In other words, democratizing access to Space. We leveraged IBM / RedHat technology to allow students worldwide to interact directly with a CubeSat in Low Earth Orbit - giving them the ability to use code to access data from various sensors, take pictures, perform calculations, and get the results back down to Earth via ground stations and the IBM Cloud.

Python Raspberry Pi 4 IBM Cloud

2020 Gilbert (Educational open source mobile application), INDEPENDENT

2021

> Built a mobile application aimed at helping college students to learn about electricity and magnetism.

> Documented and published the entire application as free and open source software.

Python Kivy

June 2016 October 2016

Cognitive Concierge, IBM

- > Our team trained and configured speech recognition patterns along with questions and answers in order to program a set of humanoid robots who could understand and answer natural language questions about IBM, Watson, cloud technologies, robotics and nearby locations.
- > A fully-working demo was presented publicly during the World of Watson conference in Las Vegas.

SoftBank Robotics' Nao and Pepper humanoid robots | Watson | Natural-language processing | Speech recognition



Red Hat OpenShift V4.X and IBM Cloud Paks on IBM Power Systems (Volume 2)

http://www.redbooks.ibm.com/abstracts/sg248486.html?Open

ISBN-10: 0738459569 ISBN-13: 9780738459561

Implementing and Managing a High-performance Enterprise Infrastructure with Nutanix on IBM Power Systems

https://www.oreilly.com/library/view/implementing-and-managing/9780738458564/

ISBN-13: 9780738458564