Alan Verdugo

Software engineer

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Competences

Programming	Python, Bash, Perl, PowerBuilder
Databases	MySQL, DB2, MongoDB, Oracle Database, Microsoft SQL Server, PostgreSQL
Data analysis	Pandas, Numpy, Matplotlib, Scikit-learn, Jupyter notebooks, Google Analytics, Watson Analytics
Operating systems	Linux (Redhat, Centos, Debian, Ubuntu Server), AIX, Windows
Others	JSON, XML, LaTeX , Git, Cron, Jira, CSV, VIM, Sublime, Agile Methodologies

Professional experience

June 2014 – Present — **Software engineer, IBM**

- Single-handedly collected, processed, curated and reported the entirety of billing data for IBM's Development Support Team. By enhancing existing code and developing new programs, I automated and improved the processes and increased the internal revenue of the team in thousands of dollars per month.
- Voluntarily participated actively in innovation projects in order to explore new areas of development, documenting insights and presenting results (Refer to the *Projects* section below).

Python | SQL | ETL | Git | Linux | AIX | IBM Smart Cloud Cost Manager | IBM Tivoli Usage and Accounting Manager | Bash | JSON | DB2 | XML | SQLite

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.)

Linux | AIX | Websphere Application Server | Nagios | Bash

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.

Linux | Python | MySQL | Nagios | Cacti | Chef | Perforce

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.

PowerBuilder | SQL | C | Java | Perl | Bash | Javascript | Linux | AIX | Eclipse | Jira | Serena Dimensions | SVN | MySQL | DB2 | Informix | PostgreSQL | Oracle Database

Certifications

CompTIA Linux+	**Valid from:** September 2016 **Verification code:** DQPR3E9HCDVE1WSN
LPIC-1	**Valid from:** September 2016 **Valid to:** September 2021 **LPI ID:** LPI000368945 **Verification code:** pfbbjhavvj
Google Analytics Individual Qualification	**Valid from:** January 2018 **Valid to:** July 2019

Languages

English ●●●●●
Spanish ●●●●●
Japanese ●○○○○

Strengths

- Creative
- Self-starter
- Analytical
- Responsible

Interests

- Reading
- Writing
- Videogames
- Programming

Projects

January 2017 – October 2017 — Conferences' atendees live tracking and analysis, IBM

- In less than a month, our team built a proof of concept of a solution to the registration of attendees in conferences, while also providing mobile applications and an RFID tracking system used to identify the attendees' participation and movement around the event's venue.
- Used the captured data to gain insights and create a dashboard using the Watson Analytics platform.
- Created reports by cleaning and processing the raw data using Pandas and plotting with Matplotlib.
- A fully-working demo was presented to IBM's global leadership during the *Interconnect* conference in Las Vegas.

Watson Analytics · Python · Pandas · Matplotlib · MySQL · ETL · RFID · Linux · CSV · SQLite

June 2016 – October 2016 — Cognitive Concierge, IBM

- By using IBM's Watson, 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 the conference.
- 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 · Text-to-speech · Speech-to-text · Linux · MySQL · Bluemix

January 2016 – March 2016 — Hadoop Raspberry Pi Cluster, IBM

- Built a fully-working 12-node Hadoop cluster with Raspberry Pies including setting up the environment in each node, testing it and presenting a demo to high management in order to demonstrate the feasibility of using Raspberries as an affordable cloud offering to entry-level clients.
- Documented the entire process and published it on the IBM developerWorks site.

Hadoop · HDFS · Raspbian · Raspberry Pi · SSH

August 2016 – April 2018 — Travel searcher, INDEPENDENT

- By analyzing Google's travel data, built a wrapper and notification system to inform me of affordable flights for destinations, prices and schedules I decided.
- Published all the code and documentation in my github repository.

Python · Google QPX API · Linux · Cron · Git

Coursework and training

Rice University	*Interactive programming in Python*
Stanford	*Introduction to mathematical thinking*
IBM	*Hadoop foundations*
IBM	*Spark foundations*
IBM	*Watson analytics*
MongoDB, Inc.	*MongoDB for developers*
Wizeline	*DevOps crash course*
University of California at San Diego	*Python for data science*
Wizeline	*Portable Stream and Batch Processing with Apache Beam*
IBM	*Blockchain essentials*
IBM	*Big data foundations*
IBM	*Bluemix essentials*
Google	*Advanced Google analytics*
Wizeline	*Spatial Data Science: Algorithms and Applications by Rappi*
IBM	*Applied Data Science with Python*