

Alan VERDUGO

Software engineer

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COMPETENCES

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

PROFESSIONAL EXPERIENCE

November 2018 Present	Software engineering, IBM <ul style="list-style-type: none">Designed and implemented data analysis software for customer feedback, compliance and benchmarking for IBM's Sales and Marketing division. <p>Python Docker SQL ETL Travis REST</p>
June 2018 November 2018	Software engineering team lead, AMDOCS <ul style="list-style-type: none">Led and mentored a development team across multiple geographies.Processed, analyzed and reported the data of a major telecommunications company. <p>Python Spark SQL ETL Cassandra Kafka REST Qlikview</p>
June 2014 June 2018	Software engineer, IBM <ul style="list-style-type: none">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. <p>Python SQL ETL Git IBM Smart Cloud Cost Manager IBM Tivoli Usage and Accounting Manager REST DB2</p>
April 2013 June 2014	System administrator, IBM <ul style="list-style-type: none">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.) <p>Linux AIX Websphere Application Server Nagios</p>
September 2012 April 2013	System administrator, ELECTRONIC ARTS <ul style="list-style-type: none">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. <p>Linux Python MySQL Nagios</p>
November 2007 September 2012	Programmer analyst, AUTOZONE <ul style="list-style-type: none">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 <i>WITTDJR (What it takes to do the job right)</i> awards for delivering an excellent customer service and one <i>Extra Miller</i> award for "going above and beyond the call of duty, exceeding expectations and consistently doing more than expected." <p>PowerBuilder SQL C Java Perl Bash Jira MySQL Informix PostgreSQL</p>

CERTIFICATIONS

CompTIA Linux+ LPIC-1	Valid from: Sept. 2016 Verification code: DQPR3E9HCDVE1WSN Valid: Sept. 2016 - Sept. 2021 LPI ID: LPI000368945 Verification code: pfbbjhawj
Google Analytics Individual Qualification	Valid: Jan. 2018 - Jul. 2019

	MongoDB, Inc.	<u>MongoDB for developers</u>
	IBM	<u>Hadoop foundations</u>
	IBM	<u>Spark foundations</u>
	IBM	<u>Big data foundations</u>
	IBM	<u>Watson analytics</u>
	Wizeline academy	<u>DevOps crash course</u>
	University of California at San Diego	<u>Python for data science</u>
	Wizeline academy	<u>Portable Stream and Batch Processing with Apache Beam</u>
	Google	<u>Advanced Google analytics</u>
	IBM	<u>Applied Data Science with Python</u>
	Google	<u>Data Engineering on Google Cloud Platform Specialization</u>
	IBM	<u>Docker Essentials</u>

 PROJECTS

- January 2017 | **Conferences' attendees live tracking and analysis, IBM**
October 2017
- > 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 in the 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 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](#) [SQLite](#)
- June 2016 | **Cognitive Concierge, IBM**
October 2016
- > 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](#)
- January 2016 | **Hadoop Raspberry Pi Cluster, IBM**
March 2016
- > 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](#).
- [HDFS](#) [Raspberry Pi](#)
- August 2016 | **Travel searcher, INDEPENDENT**
April 2018
- > 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 REST API](#)

 PUBLICATIONS

Building a Hadoop cluster with Raspberry Pi
<https://developer.ibm.com/recipes/tutorials/building-a-hadoop-cluster-with-raspberry-pi/>

Introduction to Apache Spark
<http://www.kippel.net/blog/?p=1024>

Installing and configuring a Hadoop cluster
<http://www.kippel.net/blog/?p=1079>