

# Alan VERDUGO

## Software engineer

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## COMPETENCES

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

## PROFESSIONAL EXPERIENCE

June 2018 Present	<b>Software engineering team lead, AMDOCS</b> <ul style="list-style-type: none"><li>&gt; Led and mentored a development team across multiple geographies.</li><li>&gt; Processed, analyzed and reported the data of a major telecommunications company.</li></ul> <span>Python</span> <span>Spark</span> <span>SQL</span> <span>ETL</span> <span>Cassandra</span> <span>Kafka</span> <span>Qlikview</span>
June 2014 June 2018	<b>Software engineer, IBM</b> <ul style="list-style-type: none"><li>&gt; 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.</li></ul> <span>Python</span> <span>SQL</span> <span>ETL</span> <span>Git</span> <span>IBM Smart Cloud Cost Manager</span> <span>IBM Tivoli Usage and Accounting Manager</span> <span>DB2</span>
April 2013 June 2014	<b>System administrator, IBM</b> <ul style="list-style-type: none"><li>&gt; 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.)</li></ul> <span>Linux</span> <span>AIX</span> <span>Websphere Application Server</span> <span>Nagios</span>
September 2012 April 2013	<b>System administrator, ELECTRONIC ARTS</b> <ul style="list-style-type: none"><li>&gt; 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.</li></ul> <span>Linux</span> <span>Python</span> <span>MySQL</span> <span>Nagios</span>
November 2007 September 2012	<b>Programmer analyst, AUTOZONE</b> <ul style="list-style-type: none"><li>&gt; 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.</li><li>&gt; 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."</li></ul> <span>PowerBuilder</span> <span>SQL</span> <span>C</span> <span>Java</span> <span>Perl</span> <span>Bash</span> <span>Jira</span> <span>MySQL</span> <span>Informix</span> <span>PostgreSQL</span>

## CERTIFICATIONS

CompTIA Linux+ LPIC-1	<b>Valid from:</b> Sept. 2016 <b>Verification code:</b> <a href="#">DQPR3E9HCDVE1WSN</a> <b>Valid:</b> Sept. 2016 - Sept. 2021 <b>LPI ID:</b> LPI000368945 <b>Verification code:</b> <a href="#">pfbbjhavvj</a>
Google Analytics Individual Qualification	<b>Valid:</b> Jan. 2018 - Jul. 2019

## LANGUAGES

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

## STRENGTHS

- > Creative
- > Self-starter
- > Analytical
- > Responsible

## INTERESTS

- > Reading
- > Writing
- > Videogames
- > Programming

	<b>AutoZone</b>	<i><u>Writing clear policies and procedures</u></i>
	<b>MongoDB, Inc.</b>	<i><u>MongoDB for developers</u></i>
	<b>IBM</b>	<i><u>Big data foundations</u></i>
	<b>Wizeline academy</b>	<i><u>DevOps crash course</u></i>
<b>University of California at San Diego</b>		<i><u>Python for data science</u></i>
	<b>Wizeline academy</b>	<i><u>Portable Stream and Batch Processing with Apache Beam</u></i>
	<b>Wizeline academy</b>	<i><u>Spatial Data Science: Algorithms and Applications by Rappi</u></i>
	<b>IBM</b>	<i><u>Applied Data Science with Python</u></i>
	<b>Google</b>	<i><u>Data Engineering on Google Cloud Platform Specialization</u></i>

 PROJECTS

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- 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](#)

 PUBLICATIONS

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

**Correlations between ruling political parties and journalist assassinations**  
<http://www.kippel.net/blog/?p=2124>

**Optimizing your resume with LaTeX**  
<http://www.kippel.net/blog/?p=2204>

**Analyzing movie rating data from an IMDB.com dataset using Python, Pandas and Matplotlib**  
<http://www.kippel.net/blog/?p=2067>

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

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