

# 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	<b>Software engineer, IBM</b> <ul style="list-style-type: none"><li>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.</li><li>Voluntarily participated actively in innovation projects in order to explore new areas of development, documenting insights and presenting results (Refer to the <i>Projects</i> section below).</li></ul> <div>Python SQL ETL Git Linux AIX IBM Smart Cloud Cost Manager IBM Tivoli Usage and Accounting Manager Bash JSON DB2 XML SQLite</div>
April 2013 June 2014	<b>System administrator, IBM</b> <ul style="list-style-type: none"><li>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> <div>Linux AIX Websphere Application Server Nagios Bash</div>
September 2012 April 2013	<b>System Administrator, ELECTRONIC ARTS</b> <ul style="list-style-type: none"><li>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> <div>Linux Python MySQL Nagios Cacti Chef Perforce</div>
November 2007 September 2012	<b>Programmer analyst, AUTOZONE</b> <ul style="list-style-type: none"><li>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></ul> <div>PowerBuilder SQL C Java Perl Bash Javascript Linux AIX Eclipse Jira Serena Dimensions SVN MySQL DB2 Informix PostgreSQL Oracle Database</div>

## CERTIFICATIONS

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

## LANGUAGES

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

## STRENGTHS

- Creative
- Self-starter
- Analytical
- Responsible

## INTERESTS

- Reading
- Writing
- Videogames
- Programming

## PROJECTS

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January 2017 October 2017	<b>Conferences' attendees live tracking and analysis, IBM</b> <ul style="list-style-type: none"><li>› 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.</li><li>› Used the captured data to gain insights and create a dashboard using the Watson Analytics platform.</li><li>› Created reports by cleaning and processing the raw data using Pandas and plotting with Matplotlib.</li><li>› A fully-working demo was presented to IBM's global leadership during the <i>Interconnect</i> conference in Las Vegas.</li></ul> <div>Watson Analytics Python Pandas Matplotlib MySQL ETL RFID Linux CSV SQLite</div>
June 2016 October 2016	<b>Cognitive Concierge, IBM</b> <ul style="list-style-type: none"><li>› 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.</li><li>› A fully-working demo was presented publicly during the <i>World of Watson</i> conference in Las Vegas.</li></ul> <div>SoftBank Robotics' Nao and Pepper humanoid robots Watson Natural-language processing Speech recognition Text-to-speech Speech-to-text Linux MySQL Bluemix</div>
January 2016 March 2016	<b>Hadoop Raspberry Pi Cluster, IBM</b> <ul style="list-style-type: none"><li>› I researched, analyzed and built a prototype to demonstrate the feasibility of using Raspberries as an affordable cloud offering to entry-level clients.</li><li>› I 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.</li><li>› Documented the entire process and published it on the <a href="#">IBM developerWorks site</a>.</li></ul> <div>Hadoop HDFS Raspbian Raspberry Pi SSH</div>
August 2016 April 2018	<b>Travel searcher, INDEPENDENT</b> <ul style="list-style-type: none"><li>› By gathering and analyzing Google's travel data, I built a wrapper and notification system to inform me of affordable flights for destinations, prices and schedules I decided.</li><li>› Published all the code and documentation in <a href="#">my github repository</a>.</li></ul> <div>Python Google QPX API Linux Cron Git</div>

## COURSEWORK AND TRAINING

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