Alan VERDUGO
Software engineer | Aspiring Data engineer

@ factorpolar@protonmail.com in linkedin.com/in/alanverdugo
github.com/alanverdugo kippel.net/blog
kippel.net/CV.pdf

An IT professional with years of experience striving for self-improvement and using my abilities for the benefit of those around me.

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
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, enhancing and decommissioning 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 technical 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 several reports and graphs by cleaning and processing the raw data using Pandas and plotting with Matplotlib.
- › A fully-working demo was tested and presented to IBM global leadership during the Interconnect conference in Las Vegas.
- › The system was again implemented during several week-long training sessions in WeWork in Philadelphia.

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 tested and presented to the general public 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
- › I researched, analyzed and built a prototype to demonstrate the feasibility of using Raspberries as an affordable cloud offering to entry-level clients.
- › I built a fully-working 12-node Hadoop cluster with Raspberry Pies including setting up the environment in each node, testing it and providing a demo to high management.
- › Documented the entire process and, for benefit of the community, wrote a tutorial on how to accomplish what was done. Said guide was published on the developerWorks site.

Hadoop │ HDFS │ Raspbian │ Raspberry Pi │ SSH

August 2016
April 2018

Travel searcher, INDEPENDENT
- › 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.
- › 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	Google analytics for beginners
Google	Advanced Google analytics
Wizeline	Spatial Data Science: Algorithms and Applications by Rappi

👥 Volunteer experience

September 2014 Present	**Contributor, World Community Grid** Contributed with over 15,000 CPU-hours to help solve the world's biggest problems in health and sustainability, like finding cures and treatments for cancer, ebola, zika, AIDS, TB and others. (Please consider joining this noble effort by signing up at my referral link). `WCG` `BOINC`

💬 References

Hector Avena - *Developer*, Lingo Network
❝ *Alan is one of the most creative persons I know. His pragmatic and out of the box thinking gives him always the advantage in any issue he faces. He is a person to keep around and to brainstorm ideas with.*
Alan also stands out by raising the bar of the people around him, either by sharing his knowledge, promoting the generation of more knowledge or sharing new technologies that could help get a lead in the business; IT as an ever changing business, Alan moves with the flow and adapts, because of this I recommend him. ❞

Bill Newsom - *Chief System Specialist*, AutoZone
❝ *Alan is a very smart and capable programmer. He demonstrated consistently a real interest is providing complete and high quality service to our customers.* ❞

Anaid Chacón - *Product Manager*, Dropbox
❝ *Alan is a creative and goal-oriented developer, who is never shy to jump on to new challenges and learn new technologies. His attention to detail and commitment towards a job well done makes him an asset to an IT team. I would strongly recommend Alan for positions that require analytical skills and problem solving.* ❞

Karlo Ochoa - *IT Technical Supervisor*, AutoZone
❝ *Alan is a very talented and sharp person, during the time I had the opportunity to work with him, he always demonstrated very good programming and analytical skills, he was exposed to different systems in different languages and platforms and he always showed good attitude and willingness to learn and support them.*
Alan is the kind of developer that always understands customer's needs and solves their problems; he is also not afraid to ask questions about the tasks he is working on and always open to new challenges. I have no doubt Alan is very capable and will always excels in any activity he is focus on. ❞

Carlos Rivas - *Senior Programmer*, Clover Wireless
❝ *I can recommend Alan Verdugo as a person with great recognition and deep education in different programming languages and OS. Alan Verdugo is a responsible and ambitious programmer. While he can be a very reserved person, he shows all the time a strong determination to fulfill his goals.* ❞

Luis Galindo - *IT Manager*, AutoZone
❝ *Alan is a talented, focused and goal-oriented developer. His attention to details and deep knowledge of his areas of expertise make Alan a key member of any team he works with. Alan is always willing to take on new challenges. Having Alan in the team will surely make a difference under difficult situations.* ❞

Martha Culvahouse - *Policy and compliance manager*, AutoZone
❝ *Alan is not only an excellent programmer but he's also a quick study and extremely motivated resolution-oriented troubleshooter. An example: after finishing his internship, he was assigned to support our application. He took the initiative to develop serious expertise on it including its peripherals and developed a wiki to support them. Suffice it to say: he knew more about the application than most of the vendor's technical staff.*
He's the kind of customer-oriented go-to partner that helps a team succeed. I wouldn't hesitate to recommend Alan to anyone. ❞

Mingbo Wan - *Production Engineer*, Facebook
❝ *Alan's very good IT support engineer, he works very hard and have good knowledge. He's the guy you can trust.* ❞

Iván Portilla - *Watson solution accelerator leader*, IBM
❝ *Alan is a top-ranked IBM solution leader for Watson cognitive computing engagements. Alan is recognized for his contributions to boost sales figures, territory expansion and new Watson accounts development.* ❞