Alan Verdugo

Software engineer

@ factorpolar@protonmail.com linkedin.com/in/alanverdugo github.com/alanverdugo Guadalajara, Mexico

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, Microsoft SQL Server, PostgreSQL
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**

- 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.

Python · SQL · ETL · Git · IBM Smart Cloud Cost Manager · IBM Tivoli Usage and Accounting Manager · DB2

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

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

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 · Jira · MySQL · Informix · PostgreSQL

Certifications

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

Coursework and training

IBM	*Hadoop foundations*
IBM	*Spark foundations*
IBM	*Watson analytics*
MongoDB, Inc.	*MongoDB for developers*
University of California at San Diego	*Python for data science*
Wizeline	*Portable Stream and Batch Processing with Apache Beam*
IBM	*Big data foundations*
Wizeline	*Spatial Data Science: Algorithms and Applications by Rappi*
IBM	*Applied Data Science with Python*

Projects

January 2017 – October 2017 | **Conferences' attendees 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 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 | Pandas | Matplotlib | MySQL | SQLite

June 2016 – October 2016 | **Cognitive Concierge, IBM**

- 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

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.

HDFS | Raspberry Pi

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