

COMPETENCES

Python, FastAPI, PyTest, Shell scripting, Programming

Data analysis Pandas, Matplotlib, Jupyter notebooks, Google Analytics

MySQL, DB2, PostgreSQL, MongoDB, SQLite Databases

Security WhiteSource/Mend, Hashicorp Vault, AppScan on Cloud

Docker, Git, Travis CI, Sonarqube, GitHub Actions, OpenShift, Jira, Agile methodologies Others



PROFESSIONAL EXPERIENCE

November 2018 Present

Software engineer, IBM

- > As part of IBM's Voice of the Customer team, developed Python code to automate the consumption, processing and reporting of customer-related data in order to generate NPS insights.
- > Led and mentored a team of 20 developers in order to build, maintain and improve applications which processed IBM's marketing data.
- > Designed and implemented REST APIs for customer's data transmission.
- > Monitored batch processes to protect data flows. Provided root cause analysis and fixes in case of
- > Designed and implemented microservices and utilities to optimize applications and eliminate code duplication.
- > Analyzed code and dependencies looking for security vulnerabilities. Provided remediation strategies and implemented fixes.
- > Designed and implemented our secrets-management strategy using Hashicorp Vault.
- > Presented external and internal training sessions in topics like automation, monitoring, security, containers, documentation and development best practices.

Python | OpenShift | FastAPI | GitHub | Docker | Pandas | Travis CI | Hashicorp Vault | DB2 | PostgreSQL | RHEL | Jira Bandit New Relic LogDNA S3 cloud storage PyTest JSON

June 2018 November 2018

Software engineer, AMDOCS

- > Led and mentored a software development team across multiple geographies.
- > Processed, analyzed and reported the data of a major telecommunications company.

Python Spark SQL ETL Cassandra Qlikview

June 2014 June 2018

Software engineer, IBM

- > Collected, processed, curated and reported all of the billing data for IBM's AppOps Team.
- > Automated manual processes and increased the revenue of the team in thousands of dollars per month by enhancing existing code and developing new programs.

Python | SQL | ETL | GitHub | IBM Smart Cloud Cost Manager | IBM Tivoli Usage and Accounting Manager | DB2 |

April 2013

AIX/Linux system administrator, IBM

June 2014

- > Deployed, configured, maintained and migrated IBM production applications and servers.
- > Specialized in the Unix platform and its variants (GNU/Linux, AIX, etc.)

RHEL AIX Websphere Application Server Nagios

September 2012 April 2013

Linux system administrator, ELECTRONIC ARTS

> Deployed, maintained and updated thousands of servers in the cloud, used for videogame traffic and data processing for millions of concurrent users.

Debian Python MySQL Nagios

November 2007 September 2012

Programmer analyst, AUTOZONE

- > Troubleshooting, debugging, maintaining, developing and enhancing systems in a production environment for a retail Fortune 500 company.
- > Received two WITTDJR (What it takes to do the job right) awards for delivering an excellent customer service and one Extra Miller award for "going above and beyond the call of duty, exceeding expectations and consistently doing more than expected."

PowerBuilder | SQL | C | Java | Perl | Bash | Jira | MySQL | Informix | PostgreSQL



CompTIA Linux+ Valid from: Sept. 2016 Verification code: DQPR3E9HCDVE1WSN

> LPIC-1 Valid: Sept. 2016 - Sept. 2021 LPI ID: LPI000368945 Verification code: pfbbjhavvj



COURSEWORK AND TRAINING

Data Engineering on Google Cloud Platform Specialization Google

IBM Think like a hacker

IBM DevSecOps Explorer - Security and Automation for DevOps **IBM**

MongoDB, Inc. MongoDB for developers

University of California at San Diego Python for data science

Applied Data Science with Python **IBM** IBM Cloud Kubernetes Service **IBM** Open Source Contributor

IBM Mentor **IBM**

IBM IBM Recognized Teacher/Educator

IBM IBM Cloud Garage Test-Driven Development (TDD)

IBM IBM Cloud Private - Continuous Integration/Continuous Delivery Pipelines

IBM Security Focal

IBM Pen testing, incident response and forensics

IBM Data Visualization Using Python



PROJECTS

December 2021 June 2022

Endurance mission, IBM

> Wrote code for the Endurance CubeSat mission, which allows students worldwide to interact with our CubeSat in Low Earth Orbit, so they could access data from sensors, take pictures, perform calculations, and get the data back to Earth via ground stations.

Python Raspberry Pi 4 IBM Cloud

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 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



PUBLICATIONS

Red Hat OpenShift V4.X and IBM Cloud Paks on IBM Power Systems (Volume 2)

http://www.redbooks.ibm.com/abstracts/sq248486.html?Open ISBN-13: 9780738459561. ISBN-10: 0738459569.

Implementing and Managing a High-performance Enterprise Infrastructure with Nutanix on IBM Power Systems

https://www.oreilly.com/library/view/implementing-and-managing/9780738458564/

ISBN-13: 9780738458564.



© PATENTS

Authentication with infrared light for digital keys

Patent approved. Currently being processed by the United States Patent and Trademark Office.

Continuous user's IoT devices sensing for unusual authenticity detection on computer devices

Patent approved. Currently being processed by the United States Patent and Trademark Office.