John Ryan

SKILLS

Team Building, Mentoring, Team Leadership, Software Architecture and Design, Software Implementation, Software Testing, Troubleshooting, Integration

Technical Summary: Python, DataFrames, SQL, Protégé, graphdb, data-centric, Object Oriented, Google Cloud Platform, AWS, MySQL, MongoDB, Linux, UML, Web Services, JSON, Sparx Enterprise Architect, MS Visio

PROFESSIONAL EXPERIENCE AND ACCOMPLISHMENTS

Experienced systems engineer and full-stack development professional with 20 years of demonstrated experience in the computer software and high-tech industries. Specializing in data-centered architectures, integrating technologies, algorithm development, system architecture design and documentation, software implementation and test, Excellent communicator with strong people management skills.

WORK EXPERIENCE

Systems and Data Engineer   **Princigration LLC, Granbury, TX, Remote**

October 2018 – Present

Currently defining business schema for Client moving to Data Centric approach.

- Using Owl to define data model for deep learning
- Create and manage systems on AWS to support company operations and deep learning

Previous contracts included

- Creating dashboards in Tableau for shipping customer
- Providing complex SQL aggregations for direct import as data source to allow more aggregations than Tableau allows
- Enhance Python, Elastic Search, UMLS, Luigi Data integration and Data processing platform for medical malpractice insurance company.
- Improve and maintain data integration and processing jobs utilizing character recognition and both structured and unstructured data.

- Ingest and analyze Natural Language Processing Data into Google Cloud Platform utilizing Python custom objects and Google Data Flow.
- Clean and load data for use by BigQuery

Software Architect   Nextlink Internet, Hudson Oaks, TX

June 2019 – December 2020

Lead the Data and Software Vision at Nextlink. Mentor developers and ensure software projects are planned properly. Implement the hard parts in various programming languages. Prototype systems to describe vision.

- Created Data Governance Procedure and Plan
- Defined and Created Master Data for Enterprise
- Defined and Created Global Metadata Repository for Enterprise
- Guided the company in choosing vendors and integrators
- Verified implementation and integration strategies of third party vendors.
- Designed and Implemented troubleshooting tool in Python that allows agents to get status of last mile of tech stack, find issues with devices and test speeds.
- Created several data reporting applications to support operations.

Quality Manager   IMS Machine, Cresson, TX

March 2018 – September 2018

Transformed the Quality organization of small machine shop as it grew to medium size shop. Created all systems and artifacts required to run a highly performant quality group.

- Defined all business processes and created Salesforce based data and systems for their management.
- Automated much of Quality Assurance operations and trained personnel on use of newly automated systems. Worked myself out of my job on purpose by automating many of the complicated parts and training my successor on using automated systems.
- Spearheaded AS9100 certification resulting in Certification received within 5 months of starting process with only one minor finding

VP of Systems Engineering   Alpha Recon, Colorado Springs,CO

April 2017 – March 2018

Led the entire development effort of full stack development team, by Architecting, Designing, Planning, Implementing, Testing all aspects of software product. Mentored team on technologies and solved integration and staging problems as they arose.

- Led C# .NET, MSSQL and AngularJS implementation teams in development of GIS based product
- Managed development and deployment process on AWS based environments.

Senior Consultant   **VMWARE, Remote**

December 2014 – December 2016

Played a key role in overseeing the design, maintenance, and operation of VMware's internal systems, applications, and services. Worked with a 7-member team of subject matter experts to understand customer and internal needs and develop solutions in the areas of systems engineering.

- Oversaw development and verification of work products through implementation and testing of various business objects utilizing: Java, J2EE, JBoss, AngularJS, VMWare Virtualization, Git, Jenkins, Docker, JIRA, and Rally.
- Created architectural design and implementation plan for fuel distribution system.

Senior Consultant   **MOMENTUMSI, Remote**

July 2013 – December 2014 (became VMWare in December 2014)

Leading architecture effort for various high-profile customers. Supporting the definition, development, installation, and administration of solution demonstrations for multiple Agile development projects. Developed ESB solution for commerce web customer. Developing technology tasks required to successfully deploy, implement, and support customer solutions.

- Provided enterprise-wide architecture leadership for drug sampling application for very large pharmaceutical company's drug sample distribution application.
- Implemented architecture improvement for several enterprise-level services used by major transportation company.
- Championed Oracle Right Now integration with existing Service Bus platform for e-commerce customer.

Founder / Systems Architect   **Princigration LLC, Colorado Springs, CO**

January 2008 – June 2013

- Solved a myriad of high-tech issues targeting the product line. Handled operational duties regarding all aspects of portal development efforts and technologies.
- Designed and architected dashboard for education related data analytics utilizing Liferay portal technology.

US Bank Contract   *April 2011 – February 2012*

- Drove systems integration and development utilizing Spring MVC, Spring Security, OAM, and other frameworks.
- Friendswired Portal development 08/2009–08/2011
- Led all phases of Liferay Portal development effort.

Comcast Media Center contract   *June 2010 – December 2010*

- Created portal using Weblogic Portal 10.3, integrating several systems and protecting them in single LDAP sign-in solution.

- Established UI programming template for off-source developers to use in implementation of new system features.
- Leveraged Sencha touch framework for development dynamic, template-based, JSON consuming, mobile UI.
- Utilized OpenFaces JSF to create graphically appealing User Interfaces.

Banking Industry contract   *January 2009 – March 2010*

- Managed full SDLC artifact creation for web features based on high-level Statement of Work. Utilized full technology stack on a daily basis to create new features and troubleshoot existing systems.
- Leveraged broad-based expertise in Java, SQL, PL/SQL, Struts, Spring, Hibernate, Eclipse, Netbeans, WebLogic, Ant, maven, HTML, JSP, CSS, JavaScript, OOPatterns, WS creation, and WS client usage.
- Engineered and documented high-level architecture and usage of core components within Enterprise Architecture.

Microchip Manufacturer contract – UI developer   *November 2008 – January 2009*

- Created and designed interfaces for function calls residing on CGI enabled micro controller. Designed and implemented rich user interface experience with the help of extjs JavaScript library for interfacing imbedded sensor controller.

Non-profit Contract – Senior SOA Developer   *January 2008 – November 2008*

- Optimized current architecture stack through diligent functional analysis and elimination of redundancy.
- Worked closely with architecture team to test configurations and recommend architectural strategies for the governance, lookup, and orchestration of the SOA Infrastructure.
- Designed and implemented data backup system that saved the development effort on several occasions.

Systems Engineer   **Lockheed Martin Aeronautics, Fort Worth, TX**

December 2003 – January 2008

- Created data centric toolkit for analyzing root cause of manufacturing defects.
- Created data flow and ETL software to extract information from mainframes using SAS and Oracle SQL delivering it into usable application datastores
- Improved data processing efficiency in Quality Assurance Data group through automation of data consumption.
- Created portlets for customer facing portal application utilizing java portlet and database technologies

Wireless Communications Specialist   **US Army**

June 1996 – June 2000

- Troubleshoot wireless networking issues

- Install tower based communications systems

EDUCATION

Masters of Science, Systems Engineering – Southern Methodist University – 2009
Bachelor of Science, Computer Science and Engineering – The University of Texas at Arlington – 2004

Training: Texas A&M Statistical Programming with R and SAS, SalesForce Application Customization

ACHIEVEMENTS

Certifications: University of Michigan Introduction to Data Science in Python, University of Michigan Applied Plotting, Charting & Data Representation in Python, Coursera Google Cloud Platform Data Engineer, SCALED AGILE, INC, Scaled Agile Framework SA; VMWARE, VSP 5.5

HOBBIES

Oil Painting, Digital Art, Mentoring, Community Outreach