



DATA SCIENTIST

Dillsburg, Pennsylvania

■ RLStoner@Gmail.com

Software developer working in the data science field focusing on data acquisition and preparation, process automation, and data visualization.



**Data Scientist**Harrisburg, PA

 CAPITAL BLUE CROSS
 2020-01-01 -> Now

- Created a corporate R-Shiny dashboard with supporting tables and extract code for monitoring the progression of the COVID-19 impact on the company and our members. Included are cost and case rate metrics, member demographics, health risk scores, and geospatial maps showing case clusters. Once vaccines became available, new pages were added for monitoring the injections including acceptance rates and heat maps showing areas with hesitation. The dashboard's metrics were used throughout the company, from the board-of-directors to operational teams.
- Presented tailored COVID-19 metrics for employer groups showing how their employees were impacted and how the group's claims experience compares to other
  employers in the same product lines.
- Stood up a new RStudio server (open source edition) on a Linux virtual machine. Created Bash scripts for managing code deployments from Subversion as well as scripts for daily data extracts. The server played a crucial role for improved productivity once we moved to a fully-remote team.
- Mentored co-workers on Linux fundamentals and using RStudio in a server environment. Shared code snippets and coding guidelines to improve the new team member onboarding process. Assisted team members with improving their code performance, process automation, and SQL efficiency.
- Designed and built a parameter-driven process to identify candidates for emerging high-cost drug treatments. Financial risk assessments highlight the potential risk to the company if customers begin using the treatments.
- Built PowerShell scripts to set up and execute the Optum Symmetry software.
- Currently installing and configuring the Optum software packages Symmetry and Impact Pro. Created PowerShell scripts to automate resetting date parameters and clean target folder with each run.
- · Starting a new project to migrate to Rstudio Professional edition including their Connect and Package Manager servers.

Data Analyst Harrisburg, PA

CAPITAL BLUE CROSS

2015-01-01 -> 2019-12-31

- Wrote processes to monitor vendor performance to reduce medical expenses. Performance data led to contracts being renegotiated, renewed, or terminated.
- Created an application that derives a hospital's geographic catch basin based on the number of services performed and members' home locations. Evaluations of a facility's cost performance use the number of members in that facility's basin as part of the metric.
- Authored a Tableau dashboard for Capital's Special Investigations Unit to track changes in opioid use by county. Opioid drug doses are converted to a common
  measurement standard for comparison using the FDA's Morphine Equivalent Dosage calculations. The dashboard allows the SIU to drill down to individual cases
  for review or produce summary statistics for government compliance programs.
- Tapped to be one of two developers assigned to Capital's Data Breach Rapid Response Team. After one of the Capital subsidiaries was breached, we were recruited to quickly assess the member, provider, and producer databases. We built new infrastructure to cleanse and house member, provider, and producer data, and tracked who was impacted, when they were notified, and responses received.
- Built an application that tags members for medical cohorts. Results from this application are compared to the vendor's results which helps validate the vendor's performance and invoice accuracy.
- Created a new geospatial data dimension for the Enterprise Data Warehouse, opening up a new avenue of analysis for the company. The dimension tracks where individual members, households, and medical providers are located and who occupied a given location over time.
- Developed a weekly monitor for the Special Investigations Unit to identify claims that are statistical outliers. Early identification of outliers allows the SIU to intercede for data corrections or potential fraud. Over \$1 million was recovered by the monitor in the first year.
- Designed scripts for the analytics team to increase accuracy and efficiency of impact assessments. The new workflow scripts cut turnaround time by 50%.
- Developed an automated premium balancing process to monitor for data integrity problems.
- Prototyped the first foray into geospatial analysis for the company. Geocoded the member households. Extracted Medically Underserviced Area designations from US Health and Human Services. Pulled TIGER shape datasets for Pennsylvania townships and transformed them to Netezza geospatial data objects using Well-Known-Text. Merged the member locations, HHS MUA definitions, and township boundaries to identify members living in underserviced areas. Statistical tests showed that members living in MUAs have a higher Emergency Room utilization verses members not living in an MUA. I volunteered to present my work at an analytics forum for various Blue Cross Blue Shield companies.
- Designed a new data-mart and Extract-Transform-Load process to support our stop-loss insurance business.
- Began a multi-year project to extract data related to the national Blue Cross Blue Shield consumer class action suit. Worked with the legal team and external legal consultants on data extract formats and data quality.
- Consulted on a project for importing HL7 data from various hospital facilities into Capital's data warehouse
- Primary data exchange coordinator for Capital when another Blue Cross Blue Shield detects a data breach.
- Built a new R application that compares the current flu season to the prior five seasons. Seasonal case trends are graphed by time, age, gender, market segment, and geographic area. The company's actuarial staff considers the seasonal information when setting corporate reserves.

**Data Engineer**Harrisburg, PA

**CAPITAL BLUE CROSS** 2013-01-01 -> 2014-12-31

- · Wrote data mapping instructions for extracting data from our warehouse to feed to a new startup venture.
- Advocated for the adoption of Ataccama's DQ Analyzer for researching data quality issues. Conducted several training sessions to get new users up to speed with the tool.
- · Reengineered a Java process to call an Optum (WSDL) web service for calculating a claim's Diagnostic Related Group assignment.
- · Wrote scripts to monitor and report on the daily ETL schedule's progress. Included balancing checks to verify data integrity.
- Wrote scripts to automate Capital's test database refreshes. The enhancements removed manual steps, added data sampling, and captured table meta-data to handle shape changes.
- Created a process to query the central scheduling software's database to dynamically generate dependency graphs for the team's daily schedule. The graph included dependencies within and between subsystems.
- Generated graphs showing the output of Netezza Advanced Analytics' decision trees that determined the likelihood of a member being readmitted after a congestive heart failure stay. Previously the analytics package only produced text descriptions of the decision tree paths.
- Began experimenting with Netezza's Advanced Analytics geospatial functions. Generated heatmaps showing the geospatial distribution of members and claim dollars.

Software Engineer Harrisburg, PA

CAPITAL BLUE CROSS

2007-02-12 -> 2012-12-31

- Wrote test automation scripts to facilitate the team's migration from DB2 to Netezza. The scripts handled comparisons between DB2 and Netezza for parallel test validation
- Created a process to compare data coming from Oracle and being loaded to Netezza.
- · Initiated a group to establish Informatica coding standards and procedures as the department migrated the ETL process to Informatica workflows.
- · Modified a Java process to pull SQL code from Business Objects to facilitate performing impact assessments on existing reports.
- Volunteered to work in a group experimenting with Netezza's predictive modeling features. Built a decision tree for predicting which members might be readmitted after a congestive heart failure stay.
- Developed a new process to automate testing Informatica user-defined functions.
- Recruited for a focus group to prototype improvements for handling special provider contracts. The old SAS process ran for five days. The new process, using Netezza SQL, ran inside the appliance, added new features, and completed in four hours.
- Gave several presentations to the internal Informatica user group on various workflow techniques.
- Implemented a new fact and dimension to the Enterprise Data Warehouse consisting of invoice and billing information.
- · Installed a new version of Optum's Diagnostic Related Grouping software. Modified Capital's Java/JNI interface to work with the new C code.
- Created a new handshake methodology between the internal warehouse scheduling tool (Java based) and the corporate Tidal package allowing for smoother integration with the source system.
- Joined the Data Warehousing team to support their Java application.
- Used mind mapping software to document the team's end-of-month process. Identified, scripted, and automated all manual intervention steps making the process more efficient and simpler to support.
- Established a standard for how a job failure was documented, how the problem was investigated, and what solution was used to get the schedule restarted.
- · Prepared and conducted an internal multi-day class on Unix Fundamentals and Scripting. Twenty-eight developers attended the sessions.
- Created a Java Server Faces application allowing users to enter parameters for generating member identification cards.
- Revamped a Java batch application to use JNDI for configuration options and added Message Queue (MQ Series) calls to internal services. Switched the build and compile process to use Maven.
- Created new Unix scripts for code deployment.

Systems Architect

Mechanicsburg, PA

BOOKSPAN

2004-08-01 -> 2007-02-10

- Facilitated migrating Bookspan's data center from Bertlesmann in Indianapolis, Indiana to Time Customer Service in Tampa, Florida. Received the Bookspan President's Award for the work performed on this effort. Saved \$2 million per year in cost reductions.
- Served as Bookspan's Liaison for the TCS data center.
- Consulted as one of the architects for Bookspan's conversion to a Service Oriented Architecture design. Developed and peer reviewed XML service contracts for service providers and consumers on the SOA infrastructure. Created prototypes for both consumer applications and service providers.
- Performed architecture reviews of software changes before implementation.

#### **Information Services Consultant**

Mechanicsburg, PA

BOOKSPAN

1997-08-01 -> 2004-08-01

- Served as team architect for the marketing and finance areas. Architectural review of changes in the finance / marketing areas and coordinating changes with other areas. Member of the coding standards committee.
- Technical lead for Bookspan's Year-2000 project. Vendor Y2K readiness tracking, system rollover testing coordination, rollover weekend planning. Scheduling applications for code renovation and testing.
- Developed an application testing strategy for an OS/390 operating system upgrade.

#### **Senior Programmer Analyst**

Mechanicsburg, PA

BOOKSPAN

1990-01-01 -> 1997-08-01

- Supported financial applications A/P, G/L, Sales Reporting, Vertex Tax, Author Royalties
- Developed high-speed optical character recognition (OCR) applications and data entry applications.

#### **Programmer Analyst**

Mechanicsburg, PA

BOOKSPAN 1987-09-01 -> 1989-12-31

- Supported general financial packages general ledger, accounts payable, and accounts receivable.
- Supported various applications written in REXX, APL-DI, SQL



#### Millersville University of Pennsylvania

Millersville, PA

1981

2005

September 1981 -> December 1985

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION



#### **Programming Languages**

SOL; BASH; BATCH; R-BASE; R-TIDYVERSE; JAVA; SHINY; INFORMATICA; PYTHON; NODE-RED; C; POWERSHELL; COBOL; REXX; JCL; ISPF DIALOG; SAS

#### **Markup Languages**

HTML; Markdown; Rmarkdown; YAML; Mermaid; DOT

#### **Data Interchange**

XML; CSV (DELIMITED); WELL-KNOWN-TEXT (WKT); JSON; FIXED LAYOUT; HL7; IBM MQ-SERIES; MOSQUITTO

#### **Version Control**

SUBVERSION: ENDEVOR: GIT

#### **Databases and DBMS (Database Management Systems)**

NETEZZA; DB2; ORACLE; SQLSERVER; MYSQL; MARIADB; SQLITE; SYBASE

#### **Text Editors and IDEs (Integrated Development Environment)**

RSTUDIO; NETBEANS; ECLIPSE; INTELLIJ; VI; KATE; ULTRAEDIT; POWERSHELL ISE; AGINITY; SQUIRREL SQL; PYCHARM

#### **Operating Systems**

LINUX (DEBIAN / UBUNTU / RHEL / RASPIAN); AIX; MS WINDOWS; IBM ZOS; IBM MVS

#### **Single Board Computers**

ARDUINO UNO; ARDUINO NANO; RASPBERRY PI 0-W; RASPBERRY PI 3B; RASPBERRY PI 4; ESP32

#### **Geospatial Coordinate Systems**

Universal Transverse Mercator; Latitude and Longitude; Maidenhead Grid Square

## **6** - Honors and Achievements

**Eagle Scout** Boy Scouts of America

HIGHEST RANK IN THE BOY SCOUTS OF AMERICA

Bookspan, Inc. **Bookspan Presidential Award** 

TECHNICAL LEAD FOR MOVING THE BOOKSPAN DATA CENTER FROM INDIANAPOLIS. IN TO TAMPA, FL

**Excel Gold Award** Capital Blue Cross

FOR CREATING THE CORPORATE COVID-19 DASHBOARD

2020-06 **Excel Silver Award** Capital Blue Cross

RE-ENGINEERING PROJECT WORK

**Excel Bronze Award** Capital Blue Cross

PRESENTING TAILORED COVID-19 STATISTICS FOR LARGE EMPLOYER CONSORTIUMS 2020-06

**General Class Radio Operator** Fed. Communications Comm.

ONE OF ABOUT 6,000 IN PENNSYLVANIA 2016



#### **Harrisburg Java User Group**

STEERING COMMITTEE 2005 -> 2007

#### **Bov Scouts of America**

**CUB SCOUT DEN LEADER** 2007 -> 2010

#### **Boy Scouts of America**

ASSISTANT SCOUTMASTER 2011 -> 2017

#### **South Mountain Radio Amateurs**

**EMERGENCY RADIO OPERATOR** 2014 -> Now

#### **South Mountain Radio Amateurs**

BOARD OF DIRECTORS 2019 -> 2020

#### Franklin Township Community Emergency Response Team (CERT)

TEAM MEMBER 2019 -> Now



Serving Raspberry Pi in Your Ham Shack South Mountain Radio Amateurs

ADDING RASPBERRY PIS TO CONTROL YOUR RADIO AND PERFORM OTHER TASKS AT YOUR RADIO STATION.

**Programming Arduino Boards** South Mountain Radio Amateurs

2021

2020

2020

2019

2018

2018

2016

South Mountain Radio Amateurs

South Mountain Radio Amateurs

South Mountain Radio Amateurs

South Mountain Radio Amateurs

SMRA Special Projects Team

Capital Blue Cross

Capital Blue Cross

**NVIS Antennas for Emergency Communication** 

HOW TO MAKE A NEAR VERTICAL INCIDENT SKYWAVE ANTENNA FOR EMERGENCY COMMUNICATION 2020

**Introductions to Arduino Single Board Computers** 

OVERVIEW OF SINGLE BOARD COMPUTERS FOR ELECTRONICS PROJECTS

BUILDING A POWER METER TO MEASURE RADIO OUTPUT USING AN ARDUINO BOARD

**COVID-19 Trends** Capital Blue Cross

CUSTOM PRESENTATIONS FOR SEVERAL EMPLOYER CONSORTIUMS ON HOW COVID-19 IS IMPACTING THEIR MEMBERS.

**Antenna Modeling Software** South Mountain Radio Amateurs

USING MMANA TO MODEL AN ANTENNA PROTOTYPE AND PYTHON TO MEASURE AND PLOT THE ACTUAL PERFORMANCE

**Vendor Contract Performance** Capital Blue Cross

MEASURING MEMBER PERFORMANCE BEFORE AND AFTER ENGAGING WITH A CONDITION MANAGEMENT VENDOR

**Solar Power for QRP Operations** South Mountain Radio Amateurs HOW TO USE SOLAR POWER FOR LOW-POWER (QRP) FIELD EXCURSIONS

**Software for Propagation Prediction** 

WEBSITES AND SOFTWARE PACKAGES TO ASSIST WITH PREDICTING ATMOSPHERIC PROPAGATION FOR RADIO WAVES

**Android Applications for Ham Radio** 

Introduction to C and the Arduino IDE

C PROGRAMMING CONCEPTS AND USING THE ARDUINO IDE TO COMPILE, DEBUG, AND UPLOAD CODE TO THE BOARD

**Cost of Care - Surgical Center Analysis** 

REVIEW OF SURGICAL CENTERS AND PATTERNS DRIVING COST INCREASES

**Unix Tools for Impact Assessments** 

HOW TO USE GREP AND OTHER TOOLS FOR SCANNING SOURCE CODE REPOSITORIES 2017 **Using Subverson for Version Control** Capital Blue Cross

HANDY APPLICATIONS FOR VARIOUS RADIO RELATED TASKS

USING SUBVERSION FOR MANAGING CHANGES TO SAS CODE

**Using Linux in Your Ham Shack** South Mountain Radio Amateurs

How to use Linux Software for Ham Radio tasks **SQL ETL Techniques for SAS** Capital Blue Cross

SQL TIPS FOR DOING ETL PROCESSES WITH SAS 2016

**Geospatial Concepts** Capital Blue Cross

OVERVIEW OF GEOSPATIAL DATA FOR DATA ANALYSIS 2016

**Emergency Department Utilization in Medically Underserviced Areas** Blues Analytics Group

USING GEOSPATIAL TOOLS TO TAG MEMBERS LIVING IN HHS MUAS AND TEST THEIR EMERGENCY DEPARTMENT UTILIZATION. 2016

USING DQ ANALYZER TO GET AN OVERVIEW OF NEW DATASETS  Visualizing Flu Cases Using Maps  Capital Blue Cross  PROTOTYPE OF HOW TO SHOW THE PROGRESSION OF FLU CASES THROUGHOUT CAPITAL'S SERVICE AREA  201.  SQL Concepts  MOVE MERGING AND FILETRING STEPS INTO THE NETEZZA APPLIANCE USING BETTER SQL TECHNIQUES  Introduction to Aginity for Netezza  Introduction to Aginity for Netezza  Introduction to Writing SQL in Aginity (Subsequently converted to an internal guide, with tips and shortcuts  For New Users)  Informatica Workflow Event Triggers  Capital Blue Cross  Using event triggers in workflows to change execution flow  Emailing Worksheets via Informatica  Capital Blue Cross  Techniques to use version control software for Informatica workflows  Using Parallel Pipelines in Informatica  Using Parallel Pipelines in Informatica  Moreoving Throughput rates by using Parallel processing in workflows  Unix Scripting  Intesting with Defit  Autility Allowing Less Techniques for Lapter and Scripting For Automation  Capital Blue Cross  Intesting Junit Cests  Capital Blue Cross  Introduction to Using unit Testing For Java  General introduction to Using Unit Testing For Java  General introduction to Using Unit Testing For Java  General introduction to Using Continues  Capital Blue Cross  Introduction to Using Unit Testing For Java  General introduction to Using Unit Testing For Java  General introduction to Using Unit Testing For Java  General introduction to Using Unit Testing For Java  Capital Blue Cross  Capital Blue		
Visualizing Flu Cases Using Maps  PROTOTYPE OF HOW TO SHOW THE PROGRESSION OF FLU CASES THROUGHOUT CAPITAL'S SERVICE AREA  201.  \$QL Concepts  MOVE MERGING AND FILTERING STEPS INTO THE NETEZZA APPLIANCE USING BETTER SQL TECHNIQUES  MOVE MERGING AND FILTERING STEPS INTO THE NETEZZA APPLIANCE USING BETTER SQL TECHNIQUES  MITTODUCTION TO MRITTING SQL IN AGINITY (SUBSEQUENTLY CONVERTED TO AN INTERNAL GUIDE, WITH TIPS AND SHORTCUTS FOR NEW USERS)  INTERDUCTION TO WRITTING SQL IN AGINITY (SUBSEQUENTLY CONVERTED TO AN INTERNAL GUIDE, WITH TIPS AND SHORTCUTS FOR NEW USERS)  USING EVENT TRIGGERS IN WORKFLOWS TO CHANGE EXECUTION FLOW  Emailing Worksheets via Informatica  Capital Blue Cross  CREATING AND E-MAILING WORKSHEETS USING INFORMATICA  USing Subversion with Informatica  Capital Blue Cross  TECHNIQUES TO USE VERSION CONTROL SOFTWARE FOR INFORMATICA WORKFLOWS  USing Parallel Pipelines in Informatica  Capital Blue Cross  MEROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS  UNIX Scripting  Capital Blue Cross  NITRODUCTION TO UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION  200.  Testing with DbFit  Harrisburg Java User Group  AUTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES  Capital Blue Cross  INTRODUCTION TO USING UNIT TESTING FOR JAVA  JAVA COding Techniques  General Introduction To JAVA	Data Profiling using Atacama DQ Analyzer	Capital Blue Cross
PROTOTYPE OF HOW TO SHOW THE PROGRESSION OF FLU CASES THROUGHOUT CAPITAL'S SERVICE AREA  \$\text{SQL Concepts}\$  Move MERGING AND FILTERING STEPS INTO THE NETEZZA APPLIANCE USING BETTER SQL TECHNIQUES  \$\text{Introduction to Aginity for Netezza}\$  INTRODUCTION TO WRITING SQL IN AGINITY (SUBSEQUENTLY CONVERTED TO AN INTERNAL GUIDE, WITH TIPS AND SHORTCUTS FOR NEW USERS)  Informatica Workflow Event Triggers  \$\text{Capital Blue Cross}\$  \$\text{USING EVENT TRIGGERS IN WORKFLOWS TO CHANGE EXECUTION FLOW}\$  \$\text{Capital Blue Cross}\$  \$\text{USING SUBVERSION WORKFLOWS TO CHANGE EXECUTION FLOW}\$  \$\text{Capital Blue Cross}\$  \$\text{Capital Blue Cross}\$  \$\text{USING SUBVERSION WORKFLOWS TO CHANGE EXECUTION FLOW}\$  \$\text{Capital Blue Cross}\$  \$\text{Capital Blue Cross}\$  \$\text{USING SUBVERSION WORKFLOWS TO CHANGE EXECUTION FLOW}\$  \$\text{Capital Blue Cross}\$  \$\text{USING SUBVERSION WORKFLOWS TO CHANGE EXECUTION FLOW}\$  \$\text{Capital Blue Cross}\$  \$\text{USING SUBVERSION WORKFLOWS TO CHANGE EXECUTION FLOW WORKFLOWS}\$  \$\text{USING SUBVERSION CONTROL SOFTWARE FOR INFORMATICA}\$  \$\text{USING SUBVERSION CONTROL SOFTWARE FOR INFORMATICA WORKFLOWS}\$  \$\text{USING PARAILLE PIPOLISES IN INFORMATICA WORKFLOWS}\$  \$\text{USING PARAILLE PIPOLISES IN HORKFLOWS}\$  \$\text{USING PARAILLE PROCESSING IN WORKFLOWS}\$  \$\text{USING VOILS CONCEPTS AND SCRIPTING FOR AUTOMATION}\$  \$USING VOILS CONCEPTS AND SCRIPTING FOR AUTOMATICA WORKFLOWS TO	USING DQ ANALYZER TO GET AN OVERVIEW OF NEW DATASETS	2014
SQL Concepts  Move MERGING AND FILTERING STEPS INTO THE NETEZZA APPLIANCE USING BETTER SQL TECHNIQUES  ACapital Blue Cross INTRODUCTION TO Aginity for Netezza  INTRODUCTION TO WRITING SQL IN AGINITY (SUBSEQUENTLY CONVERTED TO AN INTERNAL GUIDE, WITH TIPS AND SHORTCUTS FOR NEW USERS)  Informatica Workflow Event Triggers  Capital Blue Cross USING EVENT TRIGGERS IN WORKFLOWS TO CHANGE EXECUTION FLOW  Emailing Worksheets via Informatica  CREATING AND E-MALLING WORKFLEETS USING INFORMATICA  USING SUBVERSION WITH Informatica  CREATING AND E-MALLING WORKFLEETS USING INFORMATICA  USING PARALLEL PPOCLESSING IN WORKFLOWS  DINKS PARALLEL PROCESSING IN WORKFLOWS  AUTICATION OF UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION  AUTICATION OF UNIX CONCEPTS AND SCRIPTING FOR AUTOMATICA WORKFLOWS  AUTICATION OF UNIX CONCEPTS AND SCRIPTING FOR AUTOMATICA WORKFLOWS  AUTICATION OF UNIX CONCEPTS AND	Visualizing Flu Cases Using Maps	Capital Blue Cross
Move Merging and Filtering Steps into the Netezza Appliance using Better SQL techniques  Capital Blue Cross Introduction to Aginity for Netezza  Introduction to Aginity for Netezza  Introduction to writing SQL in Aginity (subsequently converted to an internal guide, with tips and shortcuts for New Users)  Informatica Workflow Event Triggers  Capital Blue Cross  Using event triggers in workflows to change execution flow  Emailing Worksheets via Informatica  Capital Blue Cross  Creating and e-mailing worksheets using Informatica  Capital Blue Cross  Techniques to use version control software for Informatica workflows  Lusing Parallel Pipelines in Informatica  Capital Blue Cross  Improving throughput rates by using parallel processing in workflows  Dinix Scripting  Capital Blue Cross  Introduction to Unix concepts and scripting for automation  A Utility Allowing Less technical Staff to enter test cases  Creating JUnit Tests  Capital Blue Cross  Introduction to using unit testing for Java  Java Coding Techniques  General Introduction to Java  201.  202.  203.  204.  205.  206.  207.  208.  209.  2	PROTOTYPE OF HOW TO SHOW THE PROGRESSION OF FLU CASES THROUGHOUT CAPITAL'S SERVICE AREA	2013
Introduction to Aginity for Netezza  Introduction to Writing SQL in Aginity (subsequently converted to an internal guide, with tips and shortcuts for New Users)  Informatica Workflow Event Triggers  Using event triggers in workflows to change execution flow  Emailing Worksheets via Informatica  Capital Blue Cross  Creating And E-mailling worksheets using Informatica  Capital Blue Cross  Creating And E-mailling worksheetes using Informatica  Capital Blue Cross  Techniques to use version control software for Informatica Capital Blue Cross  Improving throughput rates by using parallel processing in workflows  Dinix Scripting  Informatica  Capital Blue Cross  Introduction to Unix concepts and scripting for automation  A utility allowing less technical staff to enter test cases  Creating JUnit Tests  Capital Blue Cross  Introduction to using unit testing for Java  Java Coding Techniques  General Introduction to Java  Capital Blue Cross  General Introduction to Java  Capital Blue Cross  Capital Bl	SQL Concepts	Capital Blue Cross
INTRODUCTION TO WRITING SQL IN AGINITY (SUBSEQUENTLY CONVERTED TO AN INTERNAL GUIDE, WITH TIPS AND SHORTCUTS FOR NEW USERS)  Informatica Workflow Event Triggers  Using event Triggers in workflows to change execution flow  201  Emailing Worksheets via Informatica  Creating AND e-mailing worksheets using Informatica  Creating And e-mailing worksheets using Informatica  Capital Blue Cross Techniques to use version control software for Informatica workflows  Using Parallel Pipelines in Informatica  Capital Blue Cross Improving Throughput rates by using parallel processing in workflows  Unix Scripting  Capital Blue Cross Introduction to Unix concepts and scripting for automation  200  Testing with DbFit  A utility allowing less technical staff to enter test cases  Capital Blue Cross Introduction to using unit testing for Java  Java Coding Techniques  General Introduction to Java  Capital Blue Cross	Move merging and filtering steps into the Netezza appliance using better SQL techniques	2012
FOR NEW USERS)  Informatica Workflow Event Triggers  USING EVENT TRIGGERS IN WORKFLOWS TO CHANGE EXECUTION FLOW  CREATING AND E-MAILING WORKSHEETS USING INFORMATICA  CREATING AND E-MAILING WORKSHEETS USING INFORMATICA  USING Subversion with Informatica  Capital Blue Cross. TECHNIQUES TO USE VERSION CONTROL SOFTWARE FOR INFORMATICA WORKFLOWS  USING PARAILIEL PROCESSING IN WORKFLOWS  UNIX SCRIPTING  INTRODUCTION TO UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION  Testing with DbFit  A UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES  INTRODUCTION TO USING UNIT TESTING FOR JAVA  Java Coding Techniques  GENERAL INTRODUCTION TO JAVA  Capital Blue Cross.	Introduction to Aginity for Netezza	Capital Blue Cross
Informatica Workflow Event Triggers  Using Event Triggers In Workflows to Change Execution Flow  Emailing Worksheets via Informatica  Capital Blue Cross  Creating And e-mailing worksheets using Informatica  Creating And e-mailing worksheets using Informatica  Using Subversion with Informatica  Capital Blue Cross  Techniques to use version control software for Informatica workflows  Using Parallel Pipelines in Informatica  Capital Blue Cross  Improving throughput rates by using Parallel processing in workflows  Unix Scripting  Introduction to Unix concepts and scripting for automation  Testing with DbFit  A utility Allowing Less technical staff to enter test cases  Creating JUnit Tests  Capital Blue Cross  Introduction to using unit testing for Java  Java Coding Techniques  General Introduction to Java  Capital Blue Cross  Capital Blue	INTRODUCTION TO WRITING SQL IN AGINITY (SUBSEQUENTLY CONVERTED TO AN INTERNAL GUIDE, WITH TIPS AND SHORTCUTS	2012
USING EVENT TRIGGERS IN WORKFLOWS TO CHANGE EXECUTION FLOW  Emailing Worksheets via Informatica  CREATING AND E-MAILING WORKSHEETS USING INFORMATICA  USing Subversion with Informatica  Capital Blue Cross.  TECHNIQUES TO USE VERSION CONTROL SOFTWARE FOR INFORMATICA WORKFLOWS  Using Parallel Pipelines in Informatica  MPROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS  Unix Scripting  Capital Blue Cross.  INTRODUCTION TO UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION  A UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES  Creating JUnit Tests  Capital Blue Cross.  INTRODUCTION TO USING UNIT TESTING FOR JAVA  Java Coding Techniques  GENERAL INTRODUCTION TO JAVA  200.	FOR NEW USERS)	2012
Emailing Worksheets via InformaticaCapital Blue CrossCREATING AND E-MAILING WORKSHEETS USING INFORMATICA201.Using Subversion with InformaticaCapital Blue CrossTECHNIQUES TO USE VERSION CONTROL SOFTWARE FOR INFORMATICA WORKFLOWS201.Using Parallel Pipelines in InformaticaCapital Blue CrossIMPROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS201.Unix ScriptingCapital Blue CrossINTRODUCTION TO UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION200.Testing with DbFitHarrisburg Java User GroupA UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES200.Creating JUnit TestsCapital Blue CrossINTRODUCTION TO USING UNIT TESTING FOR JAVA200.Java Coding TechniquesCapital Blue CrossGENERAL INTRODUCTION TO JAVA200.	Informatica Workflow Event Triggers	Capital Blue Cross
CREATING AND E-MAILING WORKSHEETS USING INFORMATICA  Using Subversion with Informatica  Capital Blue Cross.  Techniques to use version control software for Informatica workflows  Using Parallel Pipelines in Informatica  Capital Blue Cross.  IMPROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS  Unix Scripting  Introduction to Unix concepts and scripting for automation  Testing with DbFit  A utility allowing less technical staff to enter test cases  Creating JUnit Tests  Capital Blue Cross.  Introduction to using unit testing for Java  Java Coding Techniques  General Introduction to Java  Capital Blue Cross.  Capital	USING EVENT TRIGGERS IN WORKFLOWS TO CHANGE EXECUTION FLOW	2011
Using Subversion with Informatica  Techniques to use version control software for Informatica workflows  Using Parallel Pipelines in Informatica  Improving throughput rates by using parallel processing in workflows  Unix Scripting  Introduction to Unix concepts and scripting for automation  Testing with DbFit  A utility allowing less technical staff to enter test cases  Creating JUnit Tests  Introduction to using unit testing for Java  Java Coding Techniques  General Introduction to Java  Capital Blue Cross	Emailing Worksheets via Informatica	Capital Blue Cross
TECHNIQUES TO USE VERSION CONTROL SOFTWARE FOR INFORMATICA WORKFLOWS  Using Parallel Pipelines in Informatica  IMPROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS  Unix Scripting  INTRODUCTION TO UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION  Testing with DbFit  A UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES  Creating JUnit Tests  INTRODUCTION TO USING UNIT TESTING FOR JAVA  JAVA Coding Techniques  GENERAL INTRODUCTION TO JAVA  2006  Capital Blue Cross  C	CREATING AND E-MAILING WORKSHEETS USING INFORMATICA	2011
Using Parallel Pipelines in InformaticaCapital Blue CrossIMPROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS2014Unix ScriptingCapital Blue CrossINTRODUCTION TO UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION2005Testing with DbFitHarrisburg Java User GroupA UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES2005Creating JUnit TestsCapital Blue CrossINTRODUCTION TO USING UNIT TESTING FOR JAVA2005Java Coding TechniquesCapital Blue CrossGENERAL INTRODUCTION TO JAVA2005	Using Subversion with Informatica	Capital Blue Cross
IMPROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS  Unix Scripting Introduction to Unix concepts and scripting for automation  Testing with DbFit A utility allowing less technical staff to enter test cases  Creating JUnit Tests Introduction to using unit testing for Java  Java Coding Techniques  General introduction to Java	TECHNIQUES TO USE VERSION CONTROL SOFTWARE FOR INFORMATICA WORKFLOWS	2010
Unix Scripting Introduction to Unix concepts and scripting for automation  Testing with DbFit A utility allowing less technical staff to enter test cases  Creating JUnit Tests Introduction to using unit testing for Java  Java Coding Techniques  General introduction to Java  Capital Blue Cross	Using Parallel Pipelines in Informatica	Capital Blue Cross
Introduction to Unix concepts and scripting for automation 2005.  Testing with DbFit Harrisburg Java User Group A UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES 2005.  Creating JUnit Tests Introduction to using unit testing for Java 2005.  Java Coding Techniques General Introduction to Java 2005.	IMPROVING THROUGHPUT RATES BY USING PARALLEL PROCESSING IN WORKFLOWS	2010
Testing with DbFit  A UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES  Creating JUnit Tests  Introduction to using unit testing for Java  Java Coding Techniques  General introduction to Java  Harrisburg Java User Group  Capital Blue Cross	Unix Scripting	Capital Blue Cross
A UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES  Creating JUnit Tests  Introduction to using unit testing for Java  Java Coding Techniques  General Introduction to Java  Capital Blue Cross	INTRODUCTION TO UNIX CONCEPTS AND SCRIPTING FOR AUTOMATION	2009
Creating JUnit TestsCapital Blue CrossIntroduction to using unit testing for Java200Java Coding TechniquesCapital Blue CrossGeneral introduction to Java200	Testing with DbFit	Harrisburg Java User Group
Introduction to using unit testing for Java  Java Coding Techniques  General introduction to Java  200.  Capital Blue Cros.	A UTILITY ALLOWING LESS TECHNICAL STAFF TO ENTER TEST CASES	2009
Java Coding TechniquesCapital Blue CrossGENERAL INTRODUCTION TO JAVA2006	Creating JUnit Tests	Capital Blue Cross
GENERAL INTRODUCTION TO JAVA 2006	Introduction to using unit testing for Java	2009
	Java Coding Techniques	Capital Blue Cross
Accessing DB2 with SQLJ  Harrisburg Java User Group	GENERAL INTRODUCTION TO JAVA	2008
	Accessing DB2 with SQLJ	Harrisburg Java User Group

2007

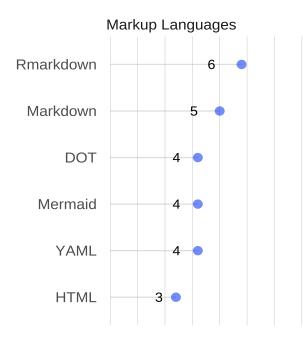
## Ф° - Personal Projects\_\_\_\_\_

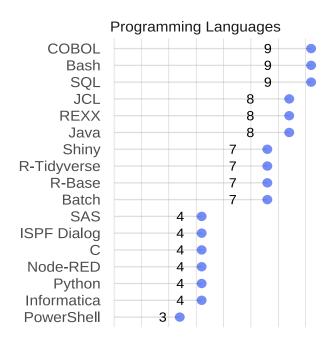
USING DB2'S BIND PROCESS WITH JAVA

Project	Description
Azimuth and Elevation	An Arduino UNO board uses a six degrees of freedom board to measure
Display	the current orientation and displays the board's angle of elevation and
	azimuth. The project is mounted on a satellite antenna boom to inform
	the operator which direction the antenna is pointing. Used for making
	amateur radio satellite contacts.
Smart RF Power Meter	An Arduino Nano board-based project measures the frequency power
	emitted by a radio and displays the value in watts. Used as a diagnostic
	tool for ham radios.
Barometric Pressure	An ESP32 board uses an environmental sensor board to read the current
and Temperature	temperature and barometric pressure. The values are transmitted from
Dashboard	a remote location to a receiving station using LoRa (Long Range) radio
	signals. The receiving board unpacks the message payload and
	publishes it to a Mosquitto queue. A Node-RED workflow subscribes to
	the queue and posts the values on a dashboard.
Headless Radio Control	A Raspberry Pi 4 controls the frequency, power level, and signal mode of
Computer	some of my ham radios. It runs digital mode software, allowing digital
	contacts with other stations around the world. The Pi is accessed via my
	network and allows me to control the station from anywhere within
	reach of the network.

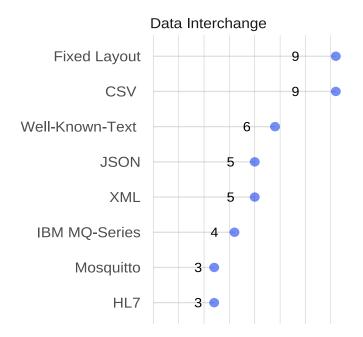
Rating my skills in various technologies on a scale of 1 to 10.

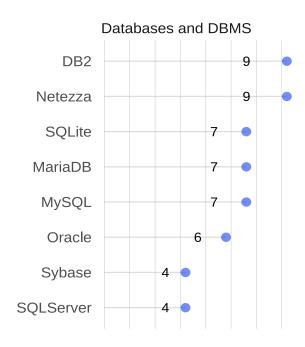
## **Technical Skills Self-Assessment**



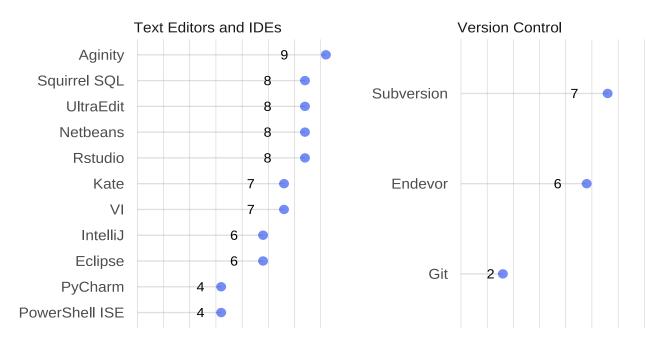


## **Technical Skills Self-Assessment**

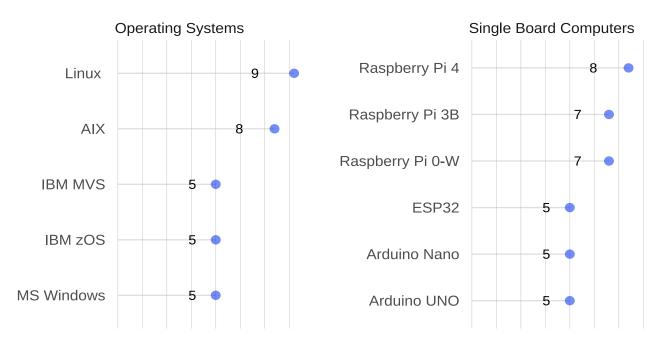




## **Technical Skills Self-Assessment**



## **Technical Skills Self-Assessment**

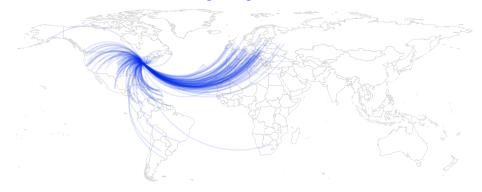


## 😚 - Talking to the world - One QSO at a time

The amateur radio hobby provides a rich source of geospatial data points. The hobby involves using your radio equipment to talk to other operators throughout the world via various modes of communication: voice, Morse Code, or numerous digital modes. Each successful contact is called a QSO. In the past, operators would exchange custom postcards with the date and signal quality of the chat. Often operators would use a large map and pushpins to mark their successes. Today, we mostly use electronic logs.

I used my electronic contact log's data to generate the map below which shows the locations of operators that I successfully spoke with using a voice mode.

# KC3DRU Contact Log Direct voice contacts using single sideband mode



Data source: ADIF logbook with Maidenhead Grid Square coordinates transformed to Lat. / Lon. via Python.

## - About this CV\_

This curriculum vitae was generated in RMarkdown using Mitchell O'Hara-Wild's library "Vitae" (https://pkg.mitchelloharawild.com/vitae/) and a couple LaTeX statements here and there to help with pagination. Bryan Jenks has a great video showing how to get started with Mitchell's library (https://www.youtube.com/watch?v=cMlRAiQUdD8). I pulled in the custom LaTeX class file from Lorena Abad's GitHub (https://github.com/loreabad6/R-CV).

My 'Twenty Second' brief resume is available in my GitHub repo https://github.com/KC3DRU/CV/blob/main/Resume20Seconds.pdf.