

B. Drew Richardson

Columbia Falls, MT • DrewRichardson2@gmail.com • 304-612-8677 • LinkedIn: [drew-richardson2](#)

Software Developer with seven years of experience that includes extensive remote project collaboration in both product development and consulting environments. Strengths include CI/CD, Python, Java, AWS, devops, and automation.

EXPERIENCE

Senior Software Engineer, API/Backend Dataminr 1/2023 - 11/2023

- Leveraged Akka streams and Kafka to improve accuracy of existing user-detail cache and enabled services to consume
 - Assisted the team responsible for user-detail API with metrics to improve their system, resulting in architecture changes that benefitted engineering as a whole.
- In coordination with product and AI team, led an effort to enable Japanese as a localized language to our APIs
- Added retries and tuned existing http clients within our API server to address transient failures
- Embedded in downstream team to assist in adoption of new push-based architecture
 - Built out a feature flag cutover system to move from a legacy monolithic service to new serverless (AWS Lambda) architecture, enabling QA to test under a variety of different modes, without impacting downstream services
- Joined 24/7 on-call support engineer rotation shortly after onboarding

Senior Software Engineer, Developer Productivity Dataminr 5/2021 - 1/2023

- Built internal API library to assist with automation testing
- Dockerized our selenium test suite, enabling teams to run during CI
- Built load testing framework for streaming services using Akka streams and Kafka
- Took the lead in creating developer surveys to leverage for roadmapping and garnering senior leadership buy-in
- In coordination with security and SRE team, implemented Backstage as a developer portal
- Conducted technical interviews for several positions, including SET and QAE roles
- Acted as mentor for SET interns. Wrote an accepted proposal for a project for interns/new grads. Provided guidance on workload, code reviews, and input on projects

Senior Software Engineer In Test I OnxMaps 3/2020 - 5/2021

Lead team of SDETs in integrating an automation framework into CI/CD processes, vetted and assisted in the implementation Report Portal leveraging AI to reduce manual review efforts, guided best practices for writing and maintaining test frameworks.

- Refined and parallelized core product CI process, saving 40 minutes per execution (down to 3-5 minutes)
- Integrated ReportPortal to github and CircleCI using NodeJs and REST API
- Conducted scheduled pair programming sessions/office hours to mentor SDETs and QAEs
- Deployed and managed Kubernetes clusters

Software Engineer in Test II -> Software Engineer II Dataminr 6/2018 - 3/2020

Responsible for developing REST API test framework for microservices, maintaining javascript selenium functional test framework, and building applications to improve QA process.

- Contributed to infrastructure to allow for deployments of new types of AWS services (Fargate).
- Improved scalability of QA infrastructure by dockerizing tools and reducing build times for testing pipelines by 75%
- Built API testing framework for our microservice architecture using Gitlab CI, Docker, Bash, Karate DSL and Rundeck. Enabled services to be spun up in an ad hoc fashion during their CI workflow and have API tests run against them.
- Held demo sessions to teach and enable QAE's to write API tests for their respective teams.
- Added multithreading capability to existing dockerized Java service that read and processed messages from a Rabbit queue, allowing it automatically switch back to default modes after a user-set period of time as well as send updates to relevant slack channel.
- Built python application that monitored our email usage and statistics which allowed us to scale it out and schedule the related tests properly. Built accompanying monitoring and metrics dashboards with Grafana.
- Improvements and maintenance on existing selenium testing framework in Javascript. Added capability for labeling and grouping tests with grunt.

IS Analyst IV Billings Clinic

1/2018 - 6/2018

Responsible for pulling in data from a variety of sources to generate reports. Emphasis on SQL and building reports for business use.

- Initiated development of an application leveraging Cerner Healthcare APIs using C# to acquire and automate data feeds for reporting.
- Built dashboards and reports using SQL, QlikView and PowerBI.
- Automated data feeds for monthly revenue cycle data using Python and Powershell.

Software Developer, ManTech International/OnWire Consulting Group

3/2015 - 11/2017

Worked on Uniform Crime Reporting system. Full stack developer with emphasis on the backend. Developed and maintained Java ingestion framework as well complex SQL queries.

- Developed, optimized, and modified existing SQL queries for generating reports on large data sets through COTS business intelligence software.
- Built a custom Web Services test framework used to verify server requests and perform stress testing on the server.
- Developed queries to validate input from thousands of user agencies to run in conjunction with the Java framework and Oracle database procedures to flag data.
- Developed and maintained JUnit testing framework for integration testing business rules done in Java and SQL.
- Created Python scripts for quickly parsing and inserting one-off data into database.
- Modified and added features to a Java framework that parsed millions of lines of text files into objects and persisted them to database using Java Persistence API (JPA).

Software Developer/Security Engineer, OnWire Consulting Group

10/2012 - 8/2014

Contributed to project efforts including internal R&D product work on OnCloud and engagements for external clients.

Focused on consolidating the IBM Identity Access Management products to a single console via Web Services, Java, Spring, Bootstrap, and IBM DB2.

For OnCloud:

- Led a COTS development team of ~10 developers assigned to development of OnCloud, a cloud-based identity management service powered by IBM security products that allows users to access identity and access management apps through a simple interface on desktops or mobile. Delegating back-end development tasks to team members.
- Automated startup and shutdown of system and development of backend frame utilizing the IBM COTS product's web services. Included WebSphere, SIM, SAM and WebSEAL.
- Generated documentation for OnCloud project adhering to FedRAMP standards.
- Utilized TestNG Java test framework to develop unit tests for web service calls to product endpoints.
- Acted as scrum master for team scrums and collaborated with product owners and other leads in agile sprint planning meetings in short, rapid, iterative cycles.
- Collaborated with IBM security product team to debug issues in web services for proper integration into our development.
- Developed backend framework utilizing the IBM COTS product's web services.
- Administered networks and virtual networks.

For the US Air Force:

- Migrated IBM Federated Identity Manager from RHEL 5 to 6. Prepared formal documentation for government review. Configured and managed Tivoli Identity Manager.

For Farmer's Insurance:

- Installed and configured IBM Security Access Manager, Tivoli Directory Server, WebSEAL reverse proxy and Federated Identity Manager in an effort to enable single sign-on for several internal and external applications.

Programmer, Pillar Innovations

7/2011 - 10/2012, 8/2014 - 3/2015

Hired to work on development of industrial controls used by the coal and gas industries.

- Provided Programmable Logic Controller (PLC) and Human Machine Interface (HMI) system development and integration from design to installation and maintenance.
- Modified existing iPad app using Objective C to allow mine foreman to sync reports upon connecting to WiFi.
- Designed and updated electrical engineering documents to be used for installation and development of PLC cabinets.

SKILLS

Java, SQL, HTML, JavaScript, Python, Oracle 11g/12c, SVN, Git, Jira, Confluence

EDUCATION

BA History and AA Education, Alderson Broaddus College (now Alderson Broaddus University) - Philippi, WV
Cross country (captain sophomore year) and soccer teams. Social Sciences “Outstanding Male Student”.