

## Andrew Buirge

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### WORK EXPERIENCE

#### Cigna Group

**Bloomington, MN**

*Software Engineering Lead Analyst – DD&AE ILM: Data Retention Development*

*July 2024 – Present*

- Leading development of Ingestion & Batch Executor Python Glue ETL jobs.
  - Ingestion gathers data from client application databases for risk analysis storing as partitions in S3.
  - Batch Executor processes partitions in batches, determining data risk following retention policy & accurately captures the data that was archived or purged. Reports errors to tracking tables.
  - Python, SQL, Terraform, AWS Glue.
- Health Check Initiative: Validation of JSON configuration files, On-Prem API access & database access.
  - Health Check Lambda ensures accuracy of Data Retention artifacts prior to database processing.
  - Python, Java, Terraform, AWS Lambda.
- Design of regression testing suite for end to end Data Retention process verification ensuring platform stability.
- Onboarding & technical mentorship of junior engineering associates.
  - Offer support on code design decisions & aid in story decomposition for their improved understanding.

#### Cigna Group

**Bloomington, MN**

*Data Science Lead Analyst – GI&O EOCC: Data Science Practice*

*July 2023 – July 2024*

- Performed statistical analyses & correlation studies using R to identify predictive metrics in application data.
- Designed Grafana dashboards enabling visibility of application metric anomalies prior to user reporting.
- Collaborated with senior leaders to visualize ServiceNow Managed Incident data in Grafana using SQL.
  - Actionable metric insights influenced \$150M+ in vendor negotiations & internal strategic pivots
- Constructed Apache Airflow DAGs to automate InfluxDB ETL pipelines using Python.

#### Cigna Group

**Bloomington, MN**

*Intelligent Automation Senior Analyst – OIA: Robotics & AI/ML Tools*

*July 2022 – July 2023*

- Developed end to end Blue Prism automations of Government Grievance Intakes on the MHK application.
  - Estimated yearly benefit of \$2M+ processing a daily volume of 700 cases.

#### Egan Company

**Champlin, MN**

*Programming Intern*

*September 2021 – June 2022*

- Constructed COVID-19 vaccination & test results dashboards to manage reporting data of 1000+ employees.
  - Integrated with Tableau Server using API calls, Google Apps Script & Data Studio.
- Developed quality control process to track the progress of 1000+ units for \$5M+ jobs.
  - Generates QR codes that navigate to a simple web site & dynamically return the related QA form.
  - HTML, CSS, Google Apps Script, Forms & Sheets.

### LEADERSHIP EXPERIENCE

#### Cigna Technology Development Program (TECDP)

**Bloomington, MN**

*Program Associate*

*July 2022 – May 2025*

- Confluence Analytics Project, MN Mentor Program Coordinator, Round 1 Interviewer & Round 2 Case Study.

### EDUCATION

#### University of Saint Thomas

**St. Paul, MN**

*B.S in Computer Science, Minors in Data Analytics & Applied Statistics*

*2018 – 2022*

- Awarded Cum Laude Honors (GPA: 3.52/4.00).

### SKILLS & INTERESTS

**Skills:** Python, Java, SQL, AWS, Grafana, C#, JavaScript, R, C, HTML, CSS, YAML, Node.js, Swagger (OpenAPI), Adobe Experience Manager, Postman, RESTful APIs, Google Data Studio, VMware.

**Interests:** Cloud Engineering, Data Science & Renewable Energy.