

# ANDREW SIMONSON

Data Scientist Seeking Something Fun To Do (subatomic research labs and deeptech crack teams HMU)

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## EMPLOYMENT

### Data Scientist

#### Ecolab

📅 January 2024 – December 2024    📍 Saint Paul, MN

- Liaison for Microsoft in 100-member AI accelerator to establish RushReady AI for service industry
- Developed data platform route and process data from vendors with scalability and high observability
- Built anomalies and recommendations modeling, resulting in a 20% increase in throughput and speed of service performance

Azure    Databricks    Apache Spark    Data Factory    SQL

### Data Engineer

#### Dow Chemical

📅 January 2023 – May 2023    📍 Lake Jackson, TX

- Produced data processing suite for Reactive Chem analysts, replacing 4 separate deprecated tools
- Designed report abstractions to preserve data integrity across 9 experimental variations
- Product became the interdepartmental data standard with >1,020 hours (~0.65 FTE) saved annually in pilot demo

MS Azure    Posit Connect/Rstudio    Visual Basic    Docker

## PROJECTS

### RIT Hotspots | 🌐 HotspotsRIT

- Geographic migration map of live occupancy data at RIT
- Produced population density predictions and movement stats for advanced population control around 30 localities

### Slate | 🌐 Slate

- Event coordination via calendar vector projection, developed to help CSH coordinate meetings between 80 members
- Pioneered new CI/CD in house services for seamless integration, cutting maintenance pressure points from 6 to 2

## AWARDS AND CERTIFICATIONS

### Certifications | 🌐 asimonson.com/certs

- UCSanDiegoX **Data Science MicroMasters** (4x10wk)
- Career Essentials in **Data Analysis** by Microsoft
- **Docker** Foundations Professional Certificate
- Career Essentials in **GitHub** Professional Certificate
- RIT **Entrepreneurial** Certificates (x3)

### Hackathons | 🌐 devpost.com/asimonson1125

- CSHacks - Best Use of AI by Paychex
- The Tiger Games - Social Impact Category Winner
- HACK.COMS '24 - Accessibility Category Winner

## EDUCATION

### Rochester Institute of Technology

#### Data Science M.S. Computer Science B.S.

📅 (B.S.) December 2024, (M.S.) December 2026  
📍 Rochester, New York

#### Undergrad Results:

GPA: 3.63

Dual Cluster in Data Science and AI

Minor in International Relations

Independent Study in Probability Theory

## SKILLS

Python    SQL    R    MATLAB  
JavaScript    Rust    C#    L<sup>A</sup>T<sub>E</sub>X

MS Azure    Databricks    Apache Spark  
Pytorch    Pandas    Numpy    ArcGIS  
Scikit/Sklearn    Docker    Kubernetes

## ACTIVITIES

### Computer Science House

#### Presenter | 🌐 Csh.rit.edu

📅 May 2021 - Present  
📍 Rochester Institute of Technology

- Technical community emphasizing hands-on learning and a strong social atmosphere
- Presented 4 seminars on web scraping and open source analytics
- Created 3 web services to support house activities, collaborated to maintain others

### BHS VEX Robotics

#### President and Team Lead

📅 September 2015 - September 2021  
📍 Boonsboro High School

- Created and led development in 3 teams for annual regional VEX Robotics Competitions
- School record for highest state ranking, laid groundwork for community outreach