

Kevin Welch

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EDUCATION

Union College

Bachelor of Science, Computer Science

Aug 2020 - Jun 2024

Schenectady, NY

- **Coursework:** Large Scale Software Development, Data Analytics, Artificial Intelligence, Natural Language Processing, Neuroscience: Mind and Behavior, Algorithms, Data Structures, Theoretical Computer Science, Computer Engineering

PROFESSIONAL EXPERIENCE

Union College

Application Programmer Analyst

Jun 2024 - Present

Schenectady, NY

- Designed and developed ETL pipelines for secure data transfer between systems like Workday and SQL Server using REST APIs and SnapLogic, improving data accuracy and improving run time efficiency
- Created, managed, and updated Workday Reports and calculated fields which enhanced reporting accuracy
- Managed a ticket-based queue system to address technical issues for functional resources promptly, ensuring minimal downtime and improved user satisfaction
- Utilized SQL Server queries to create advanced data points and metrics allowing for deeper analysis of available data

SKILLS & PROFICIENCIES

- **Programming Languages:** SQL, Python, Java, Unicode, Rust, C, Assembly (MIPS)
- **Python Libraries:** NumPy, Pandas, TensorFlow, Keras, Matplotlib, openCV, Seaborn
- **Platforms:** SnapLogic, Rest APIs, Workday (HCM and Finance), SQL Server, Colleague, Colleague Studio, AWS Services, Workday Studio (BIRT), HTTP, APIs
- **Additional Skills and Proficiencies:** Agile and Waterfall Frameworks, DAMA-DMBOK Data Management Framework and Knowledge Areas

PROJECTS

ETL Pipeline for Course & Enrollment Data Synchronization

Union College

May 2025 - July 2025

Schenectady NY

- Designed and implemented an ETL pipeline using SnapLogic to extract course and roster data from Ellucian Colleague (via Ethos API) and openLMS (via REST API), enabling seamless data integration across systems.
- Transformed and reconciled data discrepancies between source-of-truth (Colleague) and openLMS, automating updates through RESTful services to reduce sync time from ~3 hours to 15 minutes.
- Collaborated with cross-functional teams and functional stakeholders to gather and validate project requirements, ensuring accurate course and enrollment synchronization aligned with institutional needs.

KevinWelch.org | kevinwelch.org

Personal Project

Apr 2024 - May 2024

Schenectady NY

- Designed and deployed a personal resume website using AWS services including S3, Route 53, CloudFront, and Certificate Manager, to study fundamental AWS architecture, security, and cost management concepts.
- Utilized prompt engineering to generate front-end code in HTML, CSS, and JavaScript, compensating for limited experience in web development.

Chest X-Ray Autonomous Classifier

Personal Project

Jun 2025 - Jun 2025

Troy NY

- Implemented a Convolutional Neural Network using Python to detect abnormal findings in Chest X-Rays.
- An emphasis was placed on the lightweight nature of the model to increase accessibility to radiology findings in developing nations.

CERTIFICATIONS

CDMP - Certified Data Management Professional: May, 2025

Studied and certified in best practices across DAMA-DMBOK's core domains, including data governance, quality, architecture, meta data, and master data management