

KYLE ADAMS

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EDUCATION

B.S Computer Science, Minor in Mathematics | Moravian University | Bethlehem, PA | May 2024

Relevant Courses: Database Systems, Introduction to DevOps, Cloud Computing, Web Development, Systems Design

RELATED WORK EXPERIENCE

Infrastructure Engineer, IT Emerging Talent Rotational (ETR) Program | Merck - Rahway, NJ | July 2024 - Present

- Designed and implemented a **CI/CD** pipeline for a **Node.js** web application for the Enterprise Architecture Team
- Automated provisioning and testing of resources using **Terraform**, **SonarQube**, **BlackDuck** and **Github Actions**
- Assisted ETR Program by enlisting in the Rotation Matching Team and participated in varied meetings and events

IT Emerging Talent Intern | Merck - West Point, PA | Summer 2023

- Utilized **Pylint** to analyze and refactor a project produced and operated by the Quality Engineering Team
- Created a Web App using **React** and connected it to **DynamoDB** and **AWS Lambda** using an **API Gateway**
- Attended daily **Agile Scrum** meetings to discuss sprint progress as well as various intern and company events

RELATED PROJECT EXPERIENCE

Mirrulations Search, Systems Design Final | Moravian University | Spring 2024

- Worked in a group to create a Web App to query an **OpenSearch** instance in collaboration with Merck and CareSet
- Optimized an **API** to extract and transform data from **OpenSearch** and returned the data through **NGINX** to **React**
- Created a **CI/CD pipeline** using **Github Actions** to test, lint and deploy to **EC2** with two minutes of downtime

Steam Web App, Web Development Final | Moravian University | Fall 2023

- Worked in a group to create a Web App to share data from the **Steam API** and allowed the user to favorite games
- Hosted a **Flask** server and a **Redis** database on an **EC2** instance and implemented **API Endpoints** to transfer data
- Developed a front end to favorite games and display all favorites and their price using **CSS**, **HTML**, and **Javascript**

Submission Form, Cloud Computing Final | Moravian University | Fall 2022

- Worked in a group to create an eSports Club Sign-Up form whose results can be accessed by a **Discord Bot**
- Utilized **S3**, **Lambda**, **EC2**, **EventBridge**, **RDS** and an **API Gateway** in **AWS** to create frontend to backend plumbing
- Created an **HTML** webpage that used an **API Gateway** to post to **Lambda** to extract and store data in **RDS**

CS:GO Database Project, Database Systems Final | Moravian University | Fall 2021

- Worked in a group to create and analyze a database as a final project for a **Database Systems** Course
- Imported multiple CSV files into a **MySQL Relational Database** using **Python** and the MySQL Connector/Python
- Created an interface to perform selected queries on the database to highlight specific tables and data

PUBLICATIONS

- Kyle Adams, Aleksei Vilkomir, and Mark Hills (2023), "A Comparison of Machine Learning Code Quality in Python Scripts and Jupyter Notebooks." *Journal of Computing Sciences in Colleges*, Vol 39, Issue 5, pp 96–108.

CERTIFICATIONS AND TECHNICAL COMPETENCIES

- AWS Certified Cloud Practitioner (CLF-C01) | July 2023
- Python, Java, Javascript, HTML, CSS, React, NodeJS, ExpressJS, MySQL, Terraform, AWS, Git, Github, Agile Scrum

VOLUNTEER AND CHARITY WORK

Board Member | Scott Adams Memorial Fund | Allentown, PA | 2009-Present

- Organized and operated a yearly corn hole tournament (Previously the Joe Muhl Memorial Fund)
- Raised over \$160,000 across 15 years in the benefit of St. Jude Children's Research Hospital