# William E Stiller

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### Education

Penn State Erie, The Behrend College

December 2023

Bachelor of Arts in Digital Media, Arts, and Technology

(GPA 3.53)

Minor in Data Visualization, Certificate in Human Factors

National Society of Leadership and Success Member

Spring 2021 – Current

Pathway to Success: Summer Start Program

Summer 2019

**Northern Virginia Community College** 

August 2025 - Present

# **Work Experience**

**Data Structures Fellow** 

Gaithersburg, MD

National Institute of Standards and Technology

May 2023 - Aug 2023

- Evaluated data storage and curation solutions to support analysis of product quality in manufacturing systems
- Assembled abstract data structures and algorithms in an iterative process to convert raw XML manufacturing data into an HDF5 file structure
- Collaborated with PhD researchers to present findings and advancements, culminating in a detailed conference presentation

**Teaching Assistant** 

Erie, PA

Penn State Erie, The Behrend College

- June 2022 June 2022
- Supported instruction of a collaborative XSLT and XML programming course to PhD project teams
- Discussed further text archiving strategies and systematic encoding via XSLT algorithms
- Presented daily course samples and example materials for project teams

Web Developer

Erie, PA

Penn State Erie, The Behrend College

May 2022 – Dec 2022

- Lead designer of the 2022 project page redesign for the Digital Media, Arts, and Technology site
- Updated web content, media formats, and programmed in JavaScript to showcase student projects
- Developed mobile compatibility and responsive design for the DIGIT program's student-run website

#### **Conference Presentations**

Stiller, William. "Hierarchical Data Structure Development to Support Digital Thread and Digital Twin Applications." NIST Colloquium Series, August 2023, Gaithersburg, MD. Conference Presentation.

## **Project Experience**

## **Stardew Valley Text Analysis**

Spring 2023

- Implemented Python script to perform in-depth text analysis of the game Stardew Valley with a team of two, showcasing findings via GitHub Pages
- Automated the cleanup and curation of raw YAML files with use of Python, XPath, and XQuery algorithms, achieving milestone goals within the first week of the 6-week project
- Led data curation efforts by cleaning, parsing, and preparing XML text data for topic-modeling and other analysis, ensuring accuracy and completeness with prepared schema

## **League of Legends Character Performance Analysis**

Fall 2022

- Individually compiled in-game character statistics and tournament data in R to form a foundational character scoring system
- Conducted **predictive analysis of tournament performance in R**, incorporating changes from available public beta-access tests
- Validated scoring models by comparing predictions against collegiate tournament outcomes

# **Founding of Penn State Behrend Website**

Fall 2022

- Collaborated with an interdisciplinary team to develop, test, and deploy the markup of historical documents using Git, XML, XPath, and XSLT
- Integrated data standards via RNC schema to improve archive consistency and provide a foundation for future documents
- Annotated humanities texts using markup to capture relationships between people, organizations, dates, and document mediums

### **Honors and Awards Received**

Dean's List	Fall 2021, Spring 2022, Spring 2023, Fall 2023
Part-time Dean's List	Summer 2023
Patricia S. Yahn Art Show, Chancellors Award	Fall 2021

# **Society Memberships**

National Society of Leadership and Success	Spring 2021 – Current
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#### **Extracurricular Activities**

PSU Behrend Lion Ambassador	Spring 2023, Fall 2023
Behrend eSports Team Captain	Spring 2023, Fall 2023
Rehrend Gaming Club Member	