

Kelly Gorman

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EDUCATION

CASE WESTERN RESERVE UNIVERSITY

Cleveland, OH

Bachelor of Science, Majors in Data Science & Analytics, Mathematics

Expected graduation: 12/2026

GPA: 4.0

- Dean's High Honor List all semesters
- Association of Computing Machinery for Women
 - Public Relations Chair
 - Professional Outreach Chair

05/2025 - 05/2026

05/2024 - 05/2025

PROFESSIONAL EXPERIENCE AND RESEARCH

HOWMET AEROSPACE, INC.

Pittsburgh, PA

AI Engineer Intern

05/2025 - 08/2025

- Engineer Streamlit-based PDF processing interface integrating Tesseract OCR and TinyLlama (local LLM) to automate text extraction, summarization, and structured purchase order analysis, reducing manual procurement data entry.
- Apply OpenCV-based gridline detection to enhance OCR accuracy for tabular data extraction; containerize the pipeline using Podman and deploy in a remote testing environment via PuTTY.
- Engage with procurement stakeholders to iterate on system functionality, gather user feedback, and align model outputs with operational needs.

CASE WESTERN RESERVE UNIVERSITY

Cleveland, OH

Undergraduate Researcher, INvent Lab

01/2025 - Present

- Finetune U-Net segmentation model on epistroma medical imaging data.
- Develop software to streamline DICOM and MHA data processing.
- Annotate rectal MRI scans to train neural network on treatment response prediction.

Head Teaching Assistant, Programming in Java

08/2025 - Present

- Host exam review sessions, create course study materials, delegate grading responsibilities.

Teaching Assistant, Programming in Java

08/2024 - 08/2025

- Lead recitations, host office hours, and grade assignments for introductory Java programming courses.

LAWRENCE LIVERMORE NATIONAL LABORATORY

Livermore, CA

Data Science Intern

07/2024 - 08/2024

- Developed convolutional neural networks using Pytorch to predict heart arrhythmias and reconstruct activation maps for over 20000 electrocardiogram readings.
- Utilized Python's scikit-learn library and visualization tools to deploy and analyze machine learning models.
- Presented post solutions to experienced researchers.

PGT TRUCKING, INC.

Pittsburgh, PA

Software Development Intern

05/2024 - 08/2024

- Created and deployed an application to improve billing efficiency by integrating Microsoft SQL data, developing the frontend with TypeScript, building reusable React components, and implementing RESTful APIs for backend functionality.
- Designed application to standardize onboarding and enhance cross-departmental communication after conducting research surrounding company safety procedures.

WILKE CPAs & ADVISORS, LLP

Pittsburgh, PA

Finance Intern

05/2023 - 08/2023

- Analyzed financial data, organized documents, and reviewed journal entries to support tax managers

PROJECTS

- LLM therapy chatbot with integrated sentiment analysis (Word2Vec/LSTM) using Flask API and interactive UI.
- Sequential neural network to predict social media addiction based on demographics and mental health data, utilized parallel programming techniques to achieve 96.97% accuracy with 4.6 second runtime.