

Lena Poshni

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Education:

Carnegie Mellon University, Dietrich College of Humanities and Social Sciences, Pittsburgh, PA

Aug 2023 to May 2027

Bachelor of Science in Information Systems with a concentration in Health Information Systems and a minor in Financial Management

- **Honors Dean's List:** Fall 2023, Fall 2024
 - **Relevant Coursework:** Introduction to Data Structures, Fundamentals of Computer Science, Database Design and Development, Application Design and Development, Methods for Statistics, Microeconomics, and Macroeconomics
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Skills: Python, R, Java, SQL, HTML/CSS, Figma, Flask, Django, Power BI, Github, Microsoft Suite, C++

Work Experience:

Carnegie Mellon University, Heinz College of Information Systems

May 2024 to Present

Research Assistant for Professor Rema Padman

- Educating individuals on key financial terms in the healthcare insurance space to prioritize patients' understanding of their healthcare benefits
- Compiling a database of terms in the healthcare insurance field with 15- 20 educational online videos for each term
- Extracting metadata from each video including quantitative data like comments, likes, and subscriber count, in addition to descriptive information like comments, tags, and description
- Developing and training a model to assess the effectiveness of healthcare insurance-related videos, leveraging engagement metrics and sentiment analysis to identify key factors that enhance viewer comprehension and retention
- Writing summaries on the extracted data to help eliminate gaps in online videos that will ultimately optimize patients' understanding of the healthcare insurance realm

Horizon Advisory

Software Engineering Intern

Aug 2024 to Present

- Embedding Python translation scripts into a Flask-based web application to streamline multilingual document processing using its versatile and scalable architecture
- Enhancing UI/UX with HTML and CSS, optimizing the application's design for seamless navigation and user engagement
- Refining OCR (Optical Character Recognition) and machine translation algorithms to produce highly accurate, machine-translated books for clients, ensuring efficient processing regardless of document length

Data Analytics Intern

June 2024 to Aug 2024

- Coded Python scripts to precisely and efficiently translate a range of Chinese files, which consisted of images, documents, and tables, into English
- Scrapped data from websites and compiled it into a formatted CSV file for further data analysis
- Led and engaged in team meetings to share our translation tool with the team, gathering feedback on functionality, identifying areas for improvement, and refining the tool's performance based on team input.

Eastern Healthcare Financial Services

Data Analytics Intern

May 2024 to Oct 2024

- Accessed and analyzed a large-scale database containing 1,000+ data tables related to billing, provider networks, patient appointments, administrative records, and transactional data
- Designed and implemented a Python-based query system that prompts users with targeted questions to help them pinpoint specific data tables they want to access
- Exposed myself to SQL to efficiently query and analyze data tables, gaining practical experience in database management and its role in optimizing business operations

Program Intern

June 2022 to Aug 2022

- Learned how to utilize their EHR (Electronic Health Record) system to create spreadsheets that educated physicians and patients regarding their health insurance benefits
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Coding Project Experiences:

Jan 2024 to May 2024

Programmed two intensive Python projects at the end of the Fundamentals of Computer Science (15-112) course

- Designed Graph App, allowing users to input a polynomial, and the application will draw that polynomial on an x-y axis
- Developed SuperSet, a fully digitized card game where users match cards together to create matching sets