

DANIEL PEELEN

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EDUCATION

University of Pittsburgh, School of Computing and Information

B.S., Computer Science, Hungarian

- **Achievements:** Dean's List, 3.92 GPA
- **Coursework:** Data Structures & Algorithms, Computer Architecture & Assembly, Systems Software, Introduction to Deep Learning

WORK EXPERIENCE

PNC Financial Services

June 2025 - Aug 2025

Software Engineering Intern

Pittsburgh, PA

- Selected out of thousands of applicants for a competitive internship position to work in a professional environment.
- Utilized precise Google and Excel Spreadsheets integrated with independent Python scripts to streamline data processing.

University of Pittsburgh School of Computing and Information

Aug 2024 - Dec 2024

Teaching Assistant for Discrete Mathematics

Pittsburgh, PA

- Led recitations and office hours to assist students with Discrete Mathematics topics, including formal proofs and set theory.
- Engaged in problem-solving techniques that supported clear algorithmic thinking essential for algorithm design.

University of Pittsburgh Women's Volleyball Team

Sep 2023 - Dec 2024

Data Analyst & Team Manager

Pittsburgh, PA

- Utilized VolleyMetrics to code play-to-plays of games and analyzed opposing teams to create scout books for the coaches.
- Developed scouting reports and implemented strategies to optimize practices, ensuring maximum efficiency.

PROJECTS

Multi-Layer Perceptron

March 2025

University of Pittsburgh

- Designed and implemented an effective neural network using a ReLU activation function built with Python's **NumPy** library.
- Effectiveness tested by the MNIST dataset and used **PyPlot** and cross entropy loss to model accuracy data.

Flashcard Autogenerator

November 2024

University of Pittsburgh

- Streamlined study preparation, reducing flashcard creation time by automating extraction from PDF or PPTX files and formatting content for Anki decks.
- Utilized several Python libraries and Google's flan-t5 model from HuggingFace while performing integration tests.
- Plans to incorporate Flask and SQLite to build into a full stack website.

March Madness Bracket Predictor

Mar 2024

University of Pittsburgh

- Used Python's Pandas and scikit-learn modules to organize and test data into a one-versus-rest (OvR) classification model to predict 2024's March Madness results.
- Applied several data science concepts to edit and analyze data, then used machine learning techniques to make smart predictions.

SKILLS

- **Programming Languages:** Python, Java, C/C++, HTML5, CSS, PHP, JavaScript, SQL
- **Libraries/Frameworks:** BeautifulSoup, PyTorch, SQLite3, Pandas, TensorFlow, SciKit-learn, React, NodeJS, Next.js, Vite
- **Technical Skills:** HuggingFace, Machine Learning, Command-Line Interface (CLI), Linux, Backend, Databases, Git
- **Languages:** English (native), Hungarian (conversational)

EXTRACURRICULARS/AWARDS

Officer, Computer Science Club @ Pitt

- Help organize speakers from Microsoft and Amazon for the largest organization on campus.
- Organized University of Pittsburgh's **SteelHacks** hackathon, with 250+ attendants and sponsors such as Google, PNC, and Eaton.

Director, SteelHacks

- Applied Agile methodologies to coordinate tasks for SteelHacks ensuring smooth operation and delivering timely communication.

Officer, Quiz Bowl

- Competed against various colleges in quiz bowl tournaments and organized several tournaments for local high school teams.

CITIZENSHIP

USA, Hungary