Dominic DeCarlo

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EDUCATION

University of Pittsburgh   Pittsburgh, PA
Bachelor of Science in Computer Science and Data Science   *August 2023 – April 2027*
GPA: 3.6/4.0

Relevant Coursework: Data Structures & Algorithms, Systems Software, Discrete Math, Intro to Data Science, Computer Organization & Assembly, Calculus I & II, Linear Algebra, Formal Methods, Optimization

PROJECTS

AI Soccer Analysis System | *Python, OpenCV, YOLO*   July 2024
- Developed an AI/ML system using Python and computer vision to analyze football/soccer matches.
- Implemented real-time object detection to analyze player movement, important game events, etc.
- Provided valuable insights to improve match evaluation and strategy

College Real Estate Predictor | *Python, Numpy, Sci-Kit Learn, Pandas*   October 2024
- Created a machine learning model to provide more accurate current and future housing value and rent predictions than Zillow estimates, tailored for landlords and investors.
- Merged and gathered student and property data using Pandas for analysis and predictions

Live Speech Translation System | *Python, Flask, SpeechRecognition*   September 2024
- Built a real-time web app that translates live speech across languages using Flask and speech recognition.
- Integrated speech recognition to capture spoken words and Google Translate API for multilingual translation.

AI Resume Builder for Veterans | *TypeScript, Next.js, Tailwind CSS, Google Gemini API*   February 2025
- Built an AI resume builder with Next.js that translates military roles into professional, job-ready bullet points.
- Designed a complete workflow for users to generate, customize, and download a polished resume online.

EXPERIENCE

IT Intern, Data Insights and Reporting Team   May 2025 – August 2025
National Philanthropic Trust   *Philadelphia, PA*
- Built a Python-based AI/ML model to forecast contribution trends, helping the team proactively strategize for the high-volume giving season.
- Performed data analysis on complex datasets to develop business-focused data visualizations (Sankey charts, Power BI dashboards), improving reporting efficiency and providing actionable insights into donor behavior.

Camp Counselor   June 2024 – August 2024
JCC South Hills Day Camp   *Pittsburgh, PA*
- Led and supervised daily activities for a diverse group of children, including many with disabilities, from 8 AM to 4 PM, with additional aftercare responsibilities until 6 PM.
- Fostered an inclusive, supportive environment, ensuring every child had a positive camp experience.

CAMPUS INVOLVEMENT

Pitt Computer Science Club   August 2024 – Present
- Contributed to collaborative projects and technical discussions, boosting problem-solving and technical knowledge.
- Participated in coding competitions and workshops, sharpening skills in languages and software tools.

Panther Equity   January 2025 – Present
Junior Analyst
- Gained hands-on finance experience through market trend analysis and equity research for simulated portfolios.

TECHNICAL SKILLS

Languages: Java, Python, R, SQL, C, HTML/CSS, JavaScript, TypeScript, MIPS Assembly

Frameworks/Libraries: PyTorch, TensorFlow, Scikit-Learn, NumPy, SvelteKit, Flask, Node.js, Next,js

Developer Tools: GitHub, Git, Jira, PowerBI, Markdown, Visual Studio Code, Excel