

Anthony Piacentini

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EDUCATION

Union College, Schenectady, NY *Bachelor of Science in Computer Science with a Minor in Data Analytics* June 2025

Relevant Coursework: Software Engineering, Algorithms and Data Types, Algorithm Design, Networks and Data Communications, Programming Languages, Computer Organization, Large Scale Software Design, Calculus I and II, Data analytics, Discrete Mathematics, Macro Economics, Econometrics

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, JavaScript, MySQL, C++
- **Frameworks:** Angular, TailwindCSS, NextJS, SupaBase, Next.js, Node.js
- **Data and ML Tools:** pyTorch, sciKitLearn, Pandas, Prompt Engineering, Natural Language Processing, Kubernetes, OpenAI API, HuggingFace, PostgreSQL
- **Other Skills:** Regression Analysis, Predictive Modeling, Git collaboration, AWS, API integration

PROJECTS

Complex Word Identification, Natural Language Processing Winter 2025

- Developed and evaluated machine learning models to classify words as simple or complex, supporting NLP applications like readability assessment and text simplification.
- Built and benchmarked multiple models: Baseline classifiers (all-complex, length-based, frequency-based) ML models using scikit-learn: Naive Bayes, Logistic Regression, and Support Vector Classification (SVC)
- Identified key features and model configurations that optimized classification performance and generalizability

Question Answering Over Tabular Data , Natural Language Processing Winter 2025

- Co-authored a system for SemEval-2025 Task 8: Question Answering over Tabular Data, evaluating the effectiveness of Large Language Models (LLMs) on structured datasets
- Implemented and compared Zero-Shot In-Context Learning and Chain-of-Thought prompting techniques
- Identified key challenges such as scalability, computational cost, and model hallucination, providing insights for practical LLM deployment in tabular QA

Kidney Pairwise Matching, Guided Research Fall 2024

- Designed a graph-based optimization model using the Hopcroft-Karp algorithm to improve patient-donor matching.
- Demonstrated potential for scalable healthcare solutions using algorithmic approaches
- Employed Python and custom input parsers to streamline testing and improve adaptability.

Code Review Website, Software Engineering Spring 2024

- Worked in a team to build a website to facilitate reviews of beginner code, enabling feedback and skill development in a collaborative environment.
- Leveraged Node.js for backend functionality, TailwindCSS for responsive and user-friendly UI design, and Supabase for real-time database management and authentication.
- Designed to bridge the gap for new developers by providing a supportive platform for constructive feedback and coding best practices.

EMPLOYMENT EXPERIENCE

Tool Rental Associate, Home Depot, Danvers, MA June-23-Current

Use of computer applications to assist in customer satisfaction

- Developed strong customer communication skills and problem-solving under high-demand environments.
- Used internal software systems to process rentals and resolve issues efficiently.
- Gained hands-on experience with inventory management and logistical workflows.

Sales Associate, Lowe's Home Improvement, Danvers, MA June 21 - Sept. 21 June 22 - Sept. 22

- Answered phones to help customers and resolve basic concerns.
- Answered customer questions and provided store information.
- Identified support issues and initiated appropriate action to resolve problems.