

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
- **Frameworks:** Angular, TailwindCSS, NextJS, Supabase, Next.js, Node.js
- **Data and ML Tools:** pyTorch, sciKitLearn, Pandas
- **Other Skills:** Regression Analysis, Predictive Modeling, Git collaboration, Web Scraping

PROJECTS

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.

Boggle Game, **Large Scale Software Design**

Winter 2024

- Developed a collaborative Boggle game where players find words in a randomized grid, focusing on multiplayer functionality and gameplay dynamics.
- Used Git for version control to manage contributions, resolve conflicts, and maintain a clean codebase during team development.
- Enhanced team members' experience in game design, Git workflows, and collaborative software development practices.

Election Prediction Tool, **Intro to Data Analytics**

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Winter 2023

- Developed predictive models for voter outcomes using machine learning algorithms to gain insights from historical election data by scraping, cleaning, and structuring data with Pandas
- Utilized SciKit-Learn to build and optimize classification models, training on subsets of election data to identify key predictors of voting patterns and enhance model accuracy in forecasting future election results
- The algorithm was then used to show what in a county would need to change for them to be predicted to vote for other candidates. Some example metrics for change was average age, average income, and the gender ratio

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.