

SWETHA ANTONY

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EDUCATION

Rowan University Glassboro, NJ <i>Bachelor of Science in Computer Science</i>	Expected May 2028
Rowan College at Burlington County Mount Laurel, NJ <i>Computer Science Coursework</i>	December 2025

TECHNICAL SKILLS

Languages: Java, Python, C, C++ | **Tools & Technologies:** Git, Linux, VS Code, BlueJ, Unslloth Studio, NVIDIA DGX Spark

RESEARCH EXPERIENCE

Rowan University - Summer Research Program Glassboro, NJ <i>Researcher</i>	May 2026 - July 2026
• Researched and prototyped an AI-powered Java tutoring system designed to guide students through programming problems with explanatory, non-solution-revealing feedback • Fine-tuned and evaluated LLMs using Unsloth on an NVIDIA DGX Spark, benchmarking outputs across multiple datasets to identify model behavior that promoted guided reasoning over direct answers • Investigated RAG vs. fine-tuning approaches for grounding responses in course material, informing the team's architecture decisions for concept-focused tutoring • Presented findings via a poster at Rowan University, communicating a four-model evaluation of 25 adversarial prompts per model and a top Socratic-compliance score of 8.32/10	

EXPERIENCE

Allies in Caring, LLC Hammonton, NJ <i>Website Manager Intern</i>	April 2025 - September 2025
• Owned end-to-end management of the organization's Wix website, improving UX and content on a site that recorded 1,100+ page views during a measured traffic period • Redesigned information architecture based on stakeholder input from the founder and team, restructuring navigation and content hierarchy to reduce time-to-find for key information • Rebuilt the staff page using dropdown/collapsible menus, cutting page length and visual clutter while improving scannability • Audited and removed outdated content site-wide, improving content accuracy and site maintainability	
The Funplex Mount Laurel, NJ <i>Lifeguard</i>	May 2023 - August 2023
• Monitored high-traffic outdoor water attractions, applying continuous risk assessment to maintain safety for children and families in a fast-paced, high-stakes environment • Enforced compliance with manufacturer safety guidelines and facility protocols across multiple attractions simultaneously • Maintained CPR and First Aid certification, staying prepared to execute emergency response procedures under pressure	

LEADERSHIP & ACTIVITIES

WISE (Women in STEM/Engineering), Rowan University <i>Senator</i>	June 2026 - Present
• Serve as WISE's representative to the Student Government Association, attending biweekly meetings to track policy, funding, and voting decisions relevant to the club • Translate SGA updates into actionable briefings for club leadership, ensuring timely decision-making on funding and policy matters • Coordinate cross-organization communication between SGA and WISE leadership to keep the club aligned with university governance • Supported member recruitment at a campus cultural fair, engaging prospective students and helping WISE collect 44 sign-ups	

PROJECTS

A Dog's Dream - 2D Java Game <i>Java</i>	May 2026
• Designed and built a 2D side-scrolling game in Java from scratch, implementing player movement, obstacle generation, scoring, and reset logic as a solo end-to-end project • Engineered a progressive difficulty system with dynamic obstacle behavior and increasing game speed, creating distinct challenge curves across three difficulty levels • Implemented collision detection and finite game-state management (start, play, game-over, reset) to drive core gameplay loop and replayability • Built personal-best score tracking with persistent state, enabling players to measure progress across sessions	

RELEVANT COURSEWORK

Object-Oriented Programming & Data Abstraction, Data Structures & Algorithms, Foundations of Computer Science, Introduction to Programming, Discrete Mathematics, Linear Algebra, Calculus I, Calculus II, Computer Laboratory Techniques