

# Emilie Athanas

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## EDUCATION

**Bachelor of Computer Science**  
NC State University, Raleigh, NC

May 2027  
GPA: 3.5

## PROJECTS

### WolfTracker (Java)

- Built specialized array-based and linked-list classes with unique sorting and retrieval capabilities for a customizable to-do list application, demonstrating advanced knowledge of data structures and algorithmic efficiency.
- Incorporated file-based I/O operations to store and retrieve user data securely, ensuring a seamless user experience across multiple sessions and facilitating data-driven insights.

### PackHire (Java)

- Designed and implemented a state-driven application management system utilizing the State Pattern, modeling the complex lifecycle of job applications with state-specific behaviors to streamline the hiring process for faculty and staff positions.
- Engineered a finite state machine (FSM) to handle dynamic state transitions for applications, including review, interview, reference checks, and offer management, with robust handling of edge cases and resolution logging.

### House Rental Management System (C)

- Developed a terminal-based rental management system to list, reserve, and cancel vacation home rentals.
- Handled file parsing, memory management, and user-driven commands for listing and reservations.

## EXPERIENCE

### UI/UX Design Intern

September 2022 - PRESENT

Eduscape, Montvale, NJ

- Translated client requirements into 15 interactive prototypes by collaborating closely with software engineers, ensuring that all designs meet user needs and adhered to technical specifications for optimal functionality.
- Conducted research and applied user-centered design principles to create effective wireframes that improved usability and engagement for hundreds of clients.
- Played a pivotal role in developing scalable design assets tailored to the needs of specific school districts, resulting in streamlined software development and implementation with a focus on social impact.

### Crew Member

July 2021 - August 2023

Trader Joe's, Westwood, NJ

- Enhanced the shopping journey through product expertise and one-on-one interactions, fostering a welcoming environment and increasing repeat visits.
- Implemented effective shelf organization strategies that attracted more foot traffic; maintained optimal visual displays leading to improved sales conversions through better product accessibility.
- Delivered outstanding customer service by offering personalized product recommendations and resolving inquiries for over 100 customers daily.

### Dance Teaching Assistant

September 2018 - May 2019

AEDE, Park Ridge, NJ

- Took on a leadership role by instructing and leading dance classes, specializing in aerial silks and guiding students through learning new tricks and techniques.
- Fostered a supportive environment for 25 young dancers, enhancing confidence and skill development through personalized feedback on performance and technique in aerial silks classes over the course of nine months.

## SKILLS

**Technical:** Java, HTML, CSS, JavaScript, C++, C, React, Excel, Eclipse, Visual Studio Code, Makefile, version control, GitHub, Git, Figma, Linux/Unix.

**Professional:** Communication, team collaboration, cross-functional work, leadership & mentorship, problem-solving & critical thinking, customer service, relationship building, creativity & innovation, organization & time management, adaptability, research & user-centered design.

**QA/Testing:** JUnit, test case design, regression testing, coverage (gcov), debugging (gdb, Valgrind).