# Nehaa Umapathy

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## EDUCATION

**University of Georgia** — Athens, GA
*Bachelor of Science in Computer Science* — May 2026
Emphasis in Software Design — Current cumulative GPA: 3.91/4.0
Certificate of Applied Data Science — December 2025
Zell Miller Scholarship

## DISTINCTIONS

Presidential Scholar — Spring 2023, Fall 2023, Fall 2025
Dean's List — Spring 2024, Spring 2025

## RELEVANT CLASSWORK

Web Programming, Data Science 1, Mobile Software Engineering, Software Engineering, Cybersecurity, Database Management, Computer Networks, Computer Architecture Organization, Systems Programming, Algorithms, Data Structures, Software Development, Statistical Methods, Computer Graphics

## SKILLS

**Programming Languages:** Java, C, C++, SQL, HTML, CSS, Python, XML, JavaScript, TypeScript
**Frameworks & Libraries:** Spring Boot, React, Scikit-Learn, MatPlotLib, Pandas, NumPy
**Tools & Technology:** Windows, Unix, Android Studio, MySQL, Git, GitHub, Postman, Figma, MATLAB, JMP

## CERTIFICATIONS

- AWS Certified Cloud Practitioner — 2026

## WORK EXPERIENCE

**Undergraduate Teaching Assistant** — January 2025 - May 2025
*University of Georgia* — Athens, GA
- Graded 50+ weekly programming assignments in C on inter-process communication, providing detailed feedback to each student regarding debugging code to help students improve their understanding and address errors with clarity.

## PROJECT EXPERIENCE

**Heart Disease Data Analysis** — November 2025
- Developed a scikit-learn logistic regression model to predict heart disease from a standardized & encoded dataset.
- Analyzed each attribute's coefficients & plotted probability curves for each to compare the impact on predicted risk.
- Evaluated performance using the confusion matrix & classification report's accuracy, precision, & recall values.

**Item Trading Android App** — October 2025
- Built an Android app in Android Studio using Java & Google Firebase database to allow users to post items for sale.
- Developed user authentication, fragment navigation, and recycler view to list multiple items on a page.
- Implemented create, update, & delete functionalities for an item & orientation compatible layouts.

**Cinema e-Booking Web Application** — Spring 2025
- Led a team of developers to develop a full-stack movie ticket booking website using Spring Boot, Java, & React.
- Designed the database architecture and implemented secure role-based user authentication using JSON Web Token.
- Implemented an AES-encrypted credit card storage, user profile management, & other core backend functionalities.

**Relational Database** — September 2024
- Collaborated with peers to implement relational algebra operators in Java using a B+ Tree.
- Optimized query performance by implementing key-based indexing significantly improving data lookup speed.
- Maintained data integrity and consistency across multiple tables ensuring reliable and error-free data management.

**JavaFX** — April 2023
- Developed JavaFX GUI application to receive user input on a country name to display the corresponding output.
- Integrated data from multiple RESTful JSON APIs to display the sunrise and sunset times of the country's capital.
- Engineered a user-friendly, intuitive interface for seamless user interaction and efficient data display.

## CAMPUS & COMMUNITY INVOLVEMENT

UGA Society for Cybersecurity, *Member* — August 2024 – Present
- Connected with professionals to gain insights on daily responsibilities, challenges, and the evolving field.

UGA girls.code, *Member* — August 2022 – Present
- Enhanced technical knowledge & skills through workshops and acquired career insights through expert panels.