

# Nehaa Umapathy

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## EDUCATION

### **University of Georgia**

*Bachelor of Science in Computer Science*  
Emphasis in Software Design  
Certificate of Applied Data Science  
Zell Miller Scholarship

Athens, GA

May 2026

Current cumulative GPA: 3.91/4.0  
December 2025

## DISTINCTIONS

Presidential Scholar  
Dean's List

Spring 2023, Fall 2023  
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

## SKILLS

**Programming Languages:** Java, C, C++, SQL, HTML, CSS, Python, XML, JavaScript

**Frameworks & Libraries:** Spring Boot, React, Scikit-Learn, Matplotlib, Pandas, NumPy

**Tools & Technology:** Windows, Unix, Android Studio, MySQL, Git, GitHub, Postman, Figma, MATLAB, JMP

## WORK EXPERIENCE

### **Undergraduate Teaching Assistant, Systems Programming**

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.

### **State Capitals Quiz Android App**

October 2025

- Built an interactive Android app in Android Studio using Java & an SQLite database to quiz users on state capitals.
- Implemented swiping navigation & fragment-based layouts for responsive, orientation-aware UI designed in XML.
- Collaborated on dynamic question generation, progress tracking, & quiz history retrieval features.

### **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.