

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.