

# Nia Maheshwari

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## EDUCATION

### University of Tennessee

Bachelor of Science in Computer Science, Minor in Data Science  
Chancellor's & Engineering Honors Program

Knoxville, TN

Expected Graduation: May 2027  
Dean's List Scholar 2023-present

## EXPERIENCE

**Knoxville Utilities Board** | Applicant Developer Student | Ember | Bootstrap | Tailwind CSS 2025

- Implementing features in customer applications such as vendor forms & primary customer website for KUB Fiber

**Lawrence Berkeley National Laboratory** | Science Undergraduate Lab Internship 2024

- Collaborated with scientists within the Applied Mathematics and Computational Research (AMCR) division on FerroX
- FerroX is a C++ simulation software for multi-material stacks with ferroelectric material
- Incorporating and testing advanced library of time integration methods (SUNDIALs) into FerroX to improve performance
- Significantly improving run time of FerroX through strategic application of time integration functions

**University of Tennessee Vol Study Center** | Peer Learning Assistant 2024

- Providing tutoring services and instructional guidance to undergraduate students in mathematics, computer, science

## LEADERSHIP & INVOLVEMENT

**UTK Hack4Impact** | Learning-Based Project Tech Lead 2024

- Volunteering in an organization that develops software solutions for community non-profits
- Leading a team of incoming developers to produce an internal *Applicant Tracking System*
- Pioneering stand-up meetings on a weekly basis in accordance with a sprint-style workflow

**Society of Women Engineers** | Treasurer | Mentor 2023–present  
*Treasurer*

- Managing organization funds by forming a yearly budget and overseeing financial transactions

*SWEeties Mentor*

- Mentoring an underclassmen mentee to develop career competencies
- Providing guidance and support through initial year of college

*Tomorrow's Engineers Today Experiments Chair*

- Designing creative, engaging engineering experiments for middle and high-school aged students

**Knox County Schools' Gear Up 4 STEM** | Student Learning Mentor 2022–2023

- Guided elementary-aged students through daily STEM-centered lessons
- Assisted the camp teachers in demonstrating exciting, educational experiments with the students
- Organized supplies for daily activities and engaged children during field trips to the zoo/aquarium

## PERSONAL PROJECTS

**Sudoku Solver** | Python — Programming a recursive solver for a 9x9 Sudoku puzzle

**Spot It Game** | JS | HTML | CSS — Coding *Spot-it*, a popular kids' matching game

**Project Euler Problems** | C++ — Computing solutions to numerical problems listed under Project Euler

**Portfolio Website** | JS | HTML | CSS | Figma — Designing and implementing a personal profile webpage

**DUNE Landing Page** | VITE/REACT/JS | Tailwind CSS | Figma — Developing a local market affiliate company's landing page

## AWARDS & HONORS

- 1<sup>st</sup> Place, Pellissippi State CC Coding Competition (2021)
- 1<sup>st</sup> Place, TN Regional Science Olympiad (2023); 1<sup>st</sup> Place, TN Regional Science Bowl (2021)
- Farragut High School Outstanding Student in Science (May 2023)
- Full Scholarship, Governor's School for Emerging Technologies (June 2021)
- UT-Battelle, John Tummins Memorial, Volunteer, and HOPE Scholarships (2023–present)

**Technical Skills:** Languages: C++, Python, HTML/CSS/JavaScript, EmberJS, React/Vite  
Developer Tools: Vim, VS Code, GitHub, Bash, Linux, Figma b