

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
• Developing and enhancing features for customer-facing applications, including vendor forms and the primary KUB Fiber website

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

- 1st Place, Pellissippi State CC Coding Competition (2021)
- 1st Place, TN Regional Science Olympiad (2023); 1st 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