Nia Maheshwari

nmaheshw@vols.utk.edu | pebblefoot31.github.io
linkedin.com/in/nia-maheshwari | 865-232-7482

EDUCATION

University of Tennessee — Knoxville, TN
Bachelor of Science in Computer Science, Minor in Data Science — Expected Graduation: May 2027
Chancellor's & Engineering Honors Program — Dean's List Scholar 2023-present

EXPERIENCE

Knoxville Utilities Board | Applications 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