NAOMY CHEPNGENO
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EDUCATION

Wesleyan University, Middletown, CT December 2024
Bachelor of Arts, Major: Computer Science

Past coursework: Software Engineering, Special Topics in Computer Science: High-Performance Scientific Computing, Algorithms, and Complexity, Intro to Programming(Python), Discrete Mathematics, Computer Science I (C Programming-Data structures and Algorithms), Computer Science II (Functional Programming-Standard ML), Design of Programming Languages, Working with R, Vectors and Matrices

Next Semester Coursework: Automata Theory and Formal Languages, Artificial Intelligence, How to Talk to Machines, Special Topics in Computer Science: Information Security and Privacy, Dance as Activism

PROJECTS

High-Performance Scientific Computing, Wesleyan University February 2024-Present

- Independently developed a Python-based tool to explore the capabilities and performance of the university's supercomputer, focusing on node utilization and efficiency.
- Implemented parallel computing techniques to distribute computational tasks across multiple nodes, optimizing resource usage and processing speed.
- Designed and executed a series of benchmark tests to evaluate the performance of different nodes and configurations, identifying best practices for high-performance computing.
- Analyzed and documented the results, providing insights into the supercomputer's performance characteristics and potential areas for optimization

Web Developer, Faculty of Color Research Project, Wesleyan University April 2021 - June 2021

- Contributed to the development of a website showcasing faculty of color achievements using HTML, CSS, and JavaScript.
- Assisted in integrating a content management system with Node.js and MongoDB for easy content updates.
- Collaborated with a team of students and faculty to ensure accurate representation and user-friendly design.

Personal Finance Management App August 2023-December 2023

- Collaborated with a classmate to develop a web-based personal finance management application using the MERN stack (MongoDB, Express.js, React, Node.js).
- Implemented features such as expense tracking, budgeting, and financial goal setting, with a focus on user experience and data security.
- Applied object-oriented design principles to ensure the application's scalability and maintainability.

SKILLS

Programming Languages: Python, C, OCaml, SML
Operating System: Linux
Database: MongoDB
Frameworks: Angular, React, Node Js

LEADERSHIP, HONORS, AND AWARDS

LEADERSHIP: Residential Advisor at Wesleyan University, Socio-economic and Disabilities Intern at Wesleyan's Resource Center, Board member at Wesleyan's FGLI Advisory Board.
AWARDS: Davis Projects for Peace Grant Recipient, Thomas M. Arndt Wesleyan Summer Experience Grant Recipient. Equity Leadership Program (ELP). Community Service chair for the Kimulot University Students and College Association (KuSCA).