Hadiah Sedanah Mashhour

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EDUCATION

Northeastern University   Boston, MA
Bachelors in Computer Science and Business with a concentration in Finance   *Expected May 2025*
Relevant Coursework   OO Design, CyberSecurity, Algorithms & Data, Prob. Stats, Fin. and Manag. Accounting

Activities   Women in Tech, NEU Blockchain (tech team), ColorStack, NU Sci, Multi

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, SQL, JavaScript, HTML/CSS, R, Javascript
Tools: React, Node.js, JUnit, Git, Docker, VS Code, IntelliJ, NumPy, TensorFlow, Scikit-learn, .Net

EXPERIENCE

Mentor   January 2024 – Present
Oasis   *Boston, MA*
- Leading a team of four in building a cross-platform mobile app using React Native for personalized projects.
- Managing regular meetings with leadership, design leads, and clients, ensuring project alignment and progress.
- Conducting code reviews, optimized git workflows, and fostering a culture of self-discovery for effective problem-solving and quality code.

Front-end developer   January 2024 – Present
NU Sci   *Boston, MA*
- Revamping NU Sci article page, incorporating data scraping and API integration for easier article uploading.
- Redesigning NU Sci website with modern UI/UX principles, utilizing Next.js and Docker for a responsive and efficient front-end.

Security Engineer + IT Programming Co-op   July 2023 - December 2023
Boston Water and Sewer Commission   *Boston, MA*
- Collaborated with AI and Cybersecurity teams to contribute to the creation of machine learning models specialized in threat detection, anomaly detection, and behavior analysis.
- Worked with Azure Cloud infrastructure and Barracuda CloudGen firewalls to implement robust security measures, improving overall system security and network integrity by 56%.
- Orchestrated efficient mobile device management, regulated data quality checks, and troubleshot issues to propel the organization toward peak performance through AirWatch.

Data-Science Internship   May 2022 – June 2022
Harvard University   *Boston, MA*
- Leveraged R and Python to process and analyze vast data sets, improving data processing efficiency by 75% and ensuring data integrity throughout the analysis process.
- Developed a user-friendly data visualization dashboard with a 95% user satisfaction rating from project stakeholders.

PROJECTS

Bionic Hand | *Arduino, C++, Python, MyoWare, Git, TensorFlow, Scikit-learn*   2024
- Developing a machine-learning and AI based software solution in Python, integrated with Arduino MyoWare sensors, to enhance the functionality of a bionic prosthetic hand for underprivileged children amputees.
- Implementing optimization transformations to reduce sensor noise and improve reading accuracy, ensuring precise control over hand movements based on muscle activity.

RedShift | *C++, Flutter, API, Dart*   2024
- Developing and testing software to successfully launch FCB-controlled flights and solid motor-powered rockets to test various rocket subsystems with an eventual goal of launching a rocket with a liquid engine to 20,000 feet.
- Engineering a program automating rocket parameter adjustments at apogee, enhancing distance measurement accuracy in real-time.

Personal Portfolio | *Tailwind CSS, React, Javascript, Node*   2023
- Engineered a mobile-responsive personal website using React and TailwindCSS.
- Utilized server-side rendering (SSR) and markdown components (MDX) to effectively showcase personal projects and experience. Ensured fast and consistent page loads with SSR.