

# Hadiyah 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++, Go, SQL, JavaScript, HTML/CSS, R, TypeScript, Swift

**Tools:** React, Node.js, JUnit, Git, Docker, VS Code, IntelliJ, NumPy, TensorFlow, Scikit-learn, .Net, Combine

## EXPERIENCE

### Technical Lead

January 2024 – Present

*Oasis*

*Boston, MA*

- Leading a team of four in building a cross-platform mobile app using React Native for full-stack 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 troubleshoot 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 | *Swift, C++, Python, Core ML, ARKit, TensorFlow, Scikit-learn*

2024

- Developing a machine-learning and AI based software solution in Python 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.

### Swarm Carrier | *C++, Flutter, API, Dart, SwiftUI*

2024

- Leading the evolution of autonomous drone technologies, architecting a scalable, user-friendly codebase for virtual drone systems.
- Innovating autonomous payload-swapping mechanisms, integrating advanced mission control and vehicle alignment, showcasing proficiency in solving complex, real-time problems with cutting-edge software solutions.

### Personal Portfolio | *Tailwind CSS, React, Javascript, Node, SwiftUI*

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.