Nicholas J. Hardy

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EDUCATION

Boston University, College of Engineering   Boston, MA
B.S. in Computer Engineering, Concentration in Technology Innovation   May 2024
- Design Excellence Award, Societal Impact Capstone Project Award   2023/2024
Semester Abroad, **University of Sydney**, Sydney, Australia   Fall 2022

EXPERIENCE

Data and ML Engineer for Startup (currently in stealth mode)   Jul 2024-Present
- Designed and implemented ETL pipelines using MongoDB and Python to streamline data ingestion and processing.
- Currently applying machine learning techniques, including natural language processing (NLP) and optimization algorithms, to derive insights and enhance decision-making capabilities.

Software Development Intern, *MarketsEQ*   Oct 2023-Apr 2024
- Implemented Jest into the startup's codebase, enhancing the React application's automated browser testing capabilities and improving performance.
- Shaped go-to-market strategy by crafting sales decks and supporting marketing efforts, aligning technical development with business goals.
- Supported Founders in seed fundraising and strategic initiatives, contributing to Q4 2023 revenue growth.

Smart and Connected Systems Teaching Assistant, *Boston University*   Sep-Dec 2023
- Facilitated learning in embedded systems course (ENG EC444), developing starter code and resources to enhance students' practical skills with ESP32 and Raspberry Pi Nano.
- Assisted students in designing solutions and debugging, improving their understanding of course concepts through hands-on projects.

Strategy and Innovation Teaching Assistant, *Boston University*   Jul-Aug 2023
- Served as a key resource for students in Ideas for Impact (QST SI250), guiding them through Design Thinking principles and offering mentorship during lectures and discussions.
- Supported course administration by conducting roll call and contributing to grading, while providing ongoing assistance to enhance students' understanding of course material.

IoT Engineering Intern, *Preddio Technologies*   May-Jul 2023
- Played a pivotal role in the start-up's success by actively engaging in diverse areas including product design and manufacturing, quality assurance, testing, coding, and debugging of proprietary IoT technologies.
- Collaborated directly with CTO and CEO throughout the design and testing cycle of a new IoT system, ensuring alignment with customer's constraints, subsequently writing a patent application.

Front-End Developer and Software Support Intern, *Rowy (Buildship)*   Jul-Nov 2022
- Contributed to a variety of tasks including A/B testing, documentation, and content creation for an innovative low-code data management Sydney-based start-up.
- Analyzed user sign-ups and identified potential customers that met specific criteria for targeted outreach, gathering useful feedback to drive product improvements.

SELECT PROJECT

Augmented Reality Glasses for the Deaf and Hard of Hearing, "Echoview.ai"   Sep 2023-May 2024
- Conceived idea and led a team of 5 in creating EchoView.ai, a Senior Capstone project aimed at improving communication for the deaf and hard of hearing through affordable AR eyewear.
- Developed glasses capable of transcribing speech in real-time, rendering text within the user's field of vision, along with an iOS app enabling text display customization and conversation history access.
- Combined expertise in hardware, software, optics, and AI to deliver a multifaceted assistive solution, with the first prototype recognized by 2 awards from BU College of Engineering.

SKILLS
- **Programming:** C/C#/C++, Swift, Python, JavaScript, TypeScript, HTML/CSS, MATLAB
- **Development Tools:** Git, Node, React, Next, Firebase, MongoDB, Jest, Various microcontrollers, Pytorch
- **Design & Modeling:** SolidWorks, OnShape, Canva, Figma, Adobe Suite
- **Languages:** Native English and Spanish

ACTIVITIES
- US Sailing Youth Team (2017-2019), BU Varsity Sailing (2020-2022), Sailing Instructor (2018-2022)