PRISCILLA NGUYEN

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EDUCATION

Boston University, Boston, MA **Expected May 2024**
Majors: *Computer Science & Economics (B.A)* ***GPA: 3.3***
Relevant Courses: Data Structures and Algorithms, Data Science, Computer/Operating Systems, Software Engineering, Database Management

WORK EXPERIENCE

AI Researcher **June 2023 - August 2023**
DynaRoars Lab at George Mason University Remote

- Pioneered the development of state-of-the-art **PyTorch-based** verification techniques, ensuring unparalleled levels of safety and reliability for **Deep Neural Networks (DNNs)** in the context of robotics.
- Applied the research to advance the capabilities of robotic systems, contributing to the development of more intelligent and secure robots.
- Achieved a remarkable **95% accuracy** improvement over existing methods, revolutionizing the AI verification landscape in the context of robotics.

Software Engineering Intern **Nov 2022 - May 2023**
Hack4Impact Boston, MA

- Demonstrated a deep commitment to social good by leveraging cutting-edge technologies, including **React, React Native, Node.js, and MongoDB**, to create innovative solutions.
- Applied agile development methodologies to deliver high-quality software, resulting in significant positive impacts on the communities served by the nonprofit organizations.

Web Development Intern **Jun 2022 - Aug 2022**
Skilbi Remote

- Deployed the web application on **AWS Amplify** with connection to GitHub.
- Implemented a feature using **AWS SNS** that enables users to enroll in receiving SMS messages based on the user's relationship goals.
- Refactored existing **CSS** and **React** code with **SCSS** and **React Hooks** and synchronized designs with Figma mockups.

PROJECTS

Attendance Web App: Developed a comprehensive attendance system using face recognition technology. Used **Python** along with libraries such as **OpenCV**, **NumPy**, **Pandas**, **InsightFace**, and **Redis** to create a robust solution.

City Budget: Conducted a detailed data science analysis on the City of Boston's annual budget, examining spending by department, budget category, geography, and program. Investigated changes from 2021 to 2024 and compared projected vs. actual spending. Analyzed per capita spending to provide insights into spending efficiency.

Sonar Signal Classification: Utilized the sonar dataset containing sonar signals for classifying objects as either 'Rock' or 'Mine'. Implemented SMOTE and AdaBoost classification techniques to train and tune a model on the training set, achieving an impressive accuracy of **99%**.

TECHNICAL SKILLS

Coding Languages	Python, Java, Git, JavaScript, React Native, Bash/Shell, SQL, MongoDB.
Visual/Compilation Software	VSCode, Anaconda, Docker, Linux, MongoDB Compass, BaseX.