Teera Tesharo

Phone: +1 (413) 270-5372 | Email: teerareal74@gmail.com
Portfolio: http://teera.dev/ | LinkedIn: https://www.linkedin.com/in/teera74/

TECHNICAL EXPERIENCE

Languages: Python, Java, C++, Javascript, CSS, HTML
Tech: React, Tailwindcss, MySQL, Redis, MongoDB, Git, Apache Spark, Neo4j, Docker
Software: Visual Studio, PyCharm, IntelliJ IDEA, Tableau, Power Automate, Zapier, Marketo, Power BI, Sharepoint

WORK EXPERIENCE

Khoury College of Computer Sciences **Boston, MA**
Head Teaching Assistant *Jan 2024 - Present*

- Built a Python application using the evolutionary machine learning model to best assign TAs office hour slots based on their availability. Used by **20+** professors.
- Trained and supervised 11 TAs in effective teaching methodologies, grading standards, and classroom management techniques.

Massachusetts Institute of Technology (MIT) **Cambridge, MA**
Data Engineer Co-Op *Jul 2023 - Dec 2023*

- Designed and implemented a custom application using Zapier to streamline the process for professors to propose new programs, decreasing time spent on administrative tasks by **40%** and improving efficiency in program development and approval workflows.
- Utilized Marketo to manage email campaigns for university recruiters and potential students, tracking responses and engagement metrics to optimize outreach strategies and improve conversion rates, resulting in a **10%** increase in applicant response rate compared to the previous year.
- Employed Slate to develop custom JavaScripts, enabling the dynamic display of web pages tailored to different university programs.

National Aeronautics and Space Administration (NASA) **Greenbelt, MD**
Software Engineer Internship *May 2022 - Aug 2022*

- Contributed to the General Mission Analysis Tool (GMAT) by integrating its space flight simulation with Debris Assessment Software (DAS), enhancing GMAT's capabilities in planning space flight scenarios.
- Successfully modeled space debris ranging from 10 cm to 1 m in size within GMAT, ensuring accurate simulation results without compromising performance.
- Optimized GMAT by eliminating recursion to prevent runaway code, improving its suitability for deployment in space environments.

PROJECT EXPERIENCE

Information Retrieval Engine *Jan 2023 - Jan 2024*

- Created a web crawler from scratch using a priority queue and breadth-first search approach to crawl quality web pages.
- Implemented BM25, TF-IDF, and Jelinek-Mercer Smoothing algorithms to calculate the relevance scores of webpages to determine Page Rank.
- Developed a user-friendly interface allowing users to search for web pages indexed by the engine.

EDUCATION

Northeastern University **Boston, MA**
B.S. Data Science. Minor in Computer Science *Graduation Date: Dec 2024*
GPA: 3.9/4.0
Achievements: National Merit Scholarship, Northeastern Honors Scholarship