

Teera Tesharojanasup

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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