Miguel Giboyeaux-Camilo

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Projects

SDS Final Project (Web Application) | *Python, Git, GitHub, Figma, Google Cloud* **Jan. 2024 – Present**

- Collaborated in a team environment, each member contributing a unique page showcasing a distinct generative AI application, integrating user input, database queries, generative AI API calls, and output presentation/download functionalities.

PM Final Project OverSee (User Research & Product Definition) | *Figma* **Jan. 2024 – Present**

- Collaborated on a group project to define product requirements for a hypothetical application.
- Researched target user needs and identified unmet needs through user journey mapping.
- Defined key user personas and documented their pain points and goals.
- Contributed to creating a product vision and value proposition.

Huffman Coding | *Java, Git* **May 2023 – Apr. 2023**

- Implemented Huffman coding with maps and binary trees for efficient string data compression, resulting in memory reduction exceeding 75% in specific scenarios.

Education

University of Puerto Rico at Mayagüez **Aug. 2021 – Present**

Bachelor's Degree in computer science and engineering *Mayagüez, PR*

- **GPA:** 3.04/4.00

Jan. 2024 – May 2024

Google Tech Exchange *Virtual*

- Participated in a virtual semester-long computer science program taught by googlers to equip Black+, Latinx+ and Native+ students with practical skills and problem-solving approaches.

June 2023 – July 2023

C2QA Quantum Computing Summer School *Virtual*

- Successfully completed a six-week, intensive program on Quantum Information Science (QIS), gaining fundamental concepts and hands-on experience with quantum programming using IBM Qiskit. Completing over 30 Python assignments utilizing libraries like NumPy, Matplotlib, and Qiskit for scientific computing and quantum circuit design.

Relevant Coursework

- Data Structures
- Advanced Data Structures
- Algorithms Analysis
- Product Management
- Advanced Programming
- Software Development Studio

Technical Skills

Languages: Python, Java, C++
Frameworks: OpenFrameWorks, JUnit, Streamlit
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, Eclipse
Libraries: NumPy, Matplotlib

Experience

Undergraduate Research on LLM Compression **Jan. 2024 – Present**

University of Puerto Rico at Mayagüez *Mayagüez, PR*

- Exploring advanced research techniques for transforming machine learning models to run efficiently on edge devices, specifically focusing on quantization methods.

Custodian Helper **Feb. 2023 – Apr. 2023**

Museo de Arte UPRM (MUSA) *Mayagüez, PR*

- Contracted for temp work, where I was responsible for taking care of exhibits, selling merchandise, and directing and educating groups about each item on display.