**Damilola Williams**

[damilolawilliams010@gmail.com](mailto:damilolawilliams010@gmail.com) \* (773) 807-7299 \* [GITHUB Projects](https://github.com/DamilolaWilliams1/Few-Projects-2024)

**EDUCATION**

**Purdue University, Fort Wayne Fort Wayne, IN**

*BS in Computer Science (GPA: 3.5/4.0) May 2026*

*Courses Taken:* Software Engineering, Database Systems, Data Structures, Machine Learning, Operating Systems, Computer Security.

* *Awards:* Deans Honor List

**SKILLS**

* Programming: Proficient in JavaScript, Python, Java, C++, and SQL.
* Tools & Technologies: Experience with Azure DevOps, Node.js, Visual Studio Code, Git, React, PYTORCH and Oracle.
* Data Visualization: Knowledge of creating dashboards and data visualizations.
* Other Skills: Strong analytical and troubleshooting skills, effective communication, and teamwork.

**PROJECTS**

**Grading AI Development (2025 – Ongoing)**

Developing an AI-powered system to automate the grading of student answer sheets, leveraging machine learning and NLP techniques.

* **Automated Answer Evaluation:** Designed an AI model to analyze handwritten and typed responses, identifying correct and incorrect answers with high accuracy.
* **Computer Vision & OCR:** Integrated Optical Character Recognition (OCR) to extract handwritten text from scanned answer sheets, ensuring robust text recognition.

### **Web Application Development (May 2024)**

Implemented a **browser algorithm in C** to optimize data retrieval, using linked lists and tries for structured searching.

* **Linked Lists & Binary Tries**: Enabled fast lookups and prefix-based searching for URLs, improving autocomplete efficiency.
* **Multi-threading & Concurrency**: Improved response times for user queries by parallelizing certain data-fetching operations.
* **Balancing search efficiency and memory constraints**: Designed an efficient trie-based indexing system to store millions of URLs without excessive memory usage, and optimized allocation/deallocation of memory.

### **Digital Audio Workstations for Digital Innovation (Dec 2023)**

Led a team in designing **custom plug-ins for (DAWs)** using C++ and JUCE, local data storage and real-time processing.

* **Circular Buffers & FIFO Queues**: Managed real-time audio processing efficiently, ensuring low-latency playback.
* **Binary Trees (for EQ adjustments)**: Used self-balancing BSTs to optimize frequency band calculations in an equalizer plug-in.
* **Cross-platform integration**: Debugged platform-specific issues when deploying the plug-in across different DAWs.

**WORK EXPERIENCE**

**Career Development Center, Purdue Fort Wayne Fort Wayne, IN**

*Career Ambassador (2024 - Present)*

* Provide high-quality service to students and faculty, improving communication and event outreach efforts.

**Jewel-Osco Romeoville, IL**

*IT Helpdesk Intern (2023 - 2024)*

* Managed and enhanced computer/front-end systems, ensuring scalability and functionality.

**ROBORAVE International Competition New Mexico, NM**

*Software Developer & Hardware Engineer (2017 - 2018)*

* Engineered integrated hardware and software solutions, meeting rigorous competition standards.

**LEADERSHIP EXPIERINCE**

**African Students Association (ASA) Fort Wayne, IN**

*President*

* Fostered collaboration among executives to plan and execute initiatives that supported student engagement and feedback-driven development.