

# Kerene Wright

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## EDUCATION

### Florida International University

*Masters of Science (MS) in Computer Science — GPA: 3.8*

Miami, FL

January 2024 - December 2025

### The University of the West Indies, Mona Campus

*Bachelor of Science (BSc.) Computer Science — GPA: 3.8*

Kingston, Jamaica

September 2020 – July 2023

## EXPERIENCE

### Web Developer Workshop Facilitator

November 2025 - December 2025

*Break Through Tech | React.js, Node.js, JavaScript, SQLite, GitHub*

Miami, FL

- Led a **multi-day intensive workshop**, taking participants from beginners to capable full-stack developers by building a progressively complex Kanban board application from scratch.
- Designed and delivered a structured curriculum covering **HTML5, CSS3, JavaScript (ES6+), React.js, Node.js/APIs, and SQLite**, guiding students through building and refactoring a dynamic website.
- Integrated **DevOps** and collaboration tools into the curriculum by teaching **Git and GitHub workflows**—including branching, pull requests, and code review—through hands-on partner exercises.
- Fostered an inclusive learning environment with community-building sessions, interactive coding slides, and dedicated support, reducing barriers to learning and encouraging active participation.

### Student Assistant

May 2024 – December 2025

*Florida International University*

Miami, FL

- Assisted Lecturers with **MySQL** and **Logic for Computer Science** Syllabus Topics, tutoring sessions and workshops for **50+** students and improved Student Engagement with Syllabus Curriculum.

### hyLite Studios LLC

May 2025 - August 2025

*Junior Developer Intern | Meta Horizon Worlds Platform, TypeScript*

Lakewood, OH

- Contributed to VR interaction features using **TypeScript** and implemented UI systems, gaining hands-on experience in **3D UI/UX** design and agile workflows within a scrum team.
- Engaged in weekly stand-ups, code reviews, and full SDLC with mentorship from senior engineers.
- Developed **AI-driven NPCs** with interactive voice systems, enabling natural player conversations and enhancing immersion in the XR application by leveraging emerging technologies.

### Transforming Inspirational Minds Ltd.

March 2023 - December 2023

*Intern Developer | Vue.js3, Vuetify, TypeScript, Firebase, BitBucket*

St. Catherine, Jamaica

- Improved user engagement by **20%** by developing interactive trivia and survey minigames for the “NGAGE” platform following SCRUM methodologies.
- Enhanced application stability by testing, debugging, and documenting bug fixes, ensuring a seamless user experience for over **100** active users.

## PROJECTS

### NeuroPlay | Python, pandas, numpy, C++, sklearn, BioAmp EXG Pill

October 2025 - December 2025

- Developed a brain-computer interface (BCI) enabling real-time robotic car control using EEG signals and head-tilt gestures.
- Built Python pipelines for EEG signal processing, feature extraction, and KNN model training.
- Designed and executed EEG data collection, labeling, and pre-processing workflows for supervised machine learning.

### INIT-Build-LLM-Rec | NumPy, pandas, scikit-learn, Gemini API, PyMuPDF

November 2025 - December 2025

- Developed an AI-powered resume-project recommender using **NLP embeddings and cosine similarity** to match student resumes with best-fit technical projects.
- Implemented PDF resume extraction, text normalization, and embedding-based similarity scoring with **Sentence-Transformers**.
- Integrated **Gemini API** to generate explainable recommendations and built a Tkinter GUI for user interaction.

### Morganizer | KnightHacks 2025| Python, Flask, React, Vite, Google Gemini API, A2A SDK

October 2025

- Developed an **AI-powered internal assistant** to help plaintiff law teams automate the identification of actionable tasks (e.g., scheduling, drafting) from multi-source data like emails, texts, and call transcripts.
- Engineered a **multi-agent collaboration pipeline** with specialist AI agents (Records Wrangler, Client Communication Guru) for intelligent task processing and routing, incorporating a human-in-the-loop for oversight.
- Implemented the system using **Google Cloud's Gemini API and A2A SDK** to power multi-agent communication and task orchestration within a full-stack application.

**Pluto** | PlutoHacks 2025 | *Python, React, Vite, Flask, MongoDB, Gemini 2.5 API, PyTorch, BERT*      October 2025

- Developed and fine-tuned a **custom BERT-based sentiment analysis model** and integrated it with the **Gemini 2.5 conversational model** to create an emotion-aware, context-retentive AI companion for users with memory loss conditions such as Alzheimer's.
- Built and tested **Flask RESTful API routes and MongoDB data pipelines** enabling personalized memory recall by linking user-uploaded photos, stories, and emotions to the chatbot's dynamic memory profile system.
- Built front-end components using **React, HTML, CSS, and JavaScript**, ensuring compatibility between client-side and server-side systems.

**SIGNIFI** | *Arduino Mega, Flex Sensors, pandas, numpy, sklearn, C/C++, Python*      February 2025 - April 2025

- Built an end-to-end **Python Machine Learning Pipeline** (custom dataset and labeling, **feature engineering** and training a **Random Forest Classifier**) to translate ASL gestures to text.
- Achieved **98.6% test accuracy and 99% precision, recall, and F1-score** across sign classes. Implemented cross-validation (**mean accuracy: 96.9%, std dev: ±1.84%**) and used confusion matrix analysis to validate and refine model performance.

**GreenifyMe** | UM AI Hackathon 2025 | *Python, Streamlit, LSTM, Flask, Hugging Face API, Stable Diffusion*.February 2025

- Developed an AI-powered micro-climate analysis tool using an **LSTM (Long Short-Term Memory) model** for time-series forecasting, accurately predicting rising temperatures in Miami over the next 5 years based on historical climate data
- Collaborated in developing the image-to-image generative AI system using **Stable Diffusion** for AI art generation, integrating **Python, Flask, and Hugging Face's Stability AI API**.
- **Achievement:** Placed **2nd** at the *University of Miami Horizon AI* hackathon.

**Resume Analyzer** | *Streamlit, Python, Gemini API*      October 2024 - December 2024

- An application that uses an **LLM** to evaluate multiple resumes and generate a score based on user input specifications such as Experience, Technical Skills, Education and Certification.
- Utilize **Google Gemini LLM** using an **API Key** to generate resume match score and evaluation.

**HackerMatch** | ShellHacks 2024 | *Python, Flask, MySQL, Bootstrap, Javascript*      September 2024

- Developed a full-stack web application integrating frontend interfaces with backend databases via **REST APIs**.
- Designed and normalized relational databases, reinforcing data integrity and maintainable system architecture.

**Cattrax** | *Unity, C, Blender#*      February - June 2024

- Developed an endless runner VR project in **Unity (C#)**, where players navigate a growing civilization of cats across an island, implementing immersive controls and procedurally generated environments.
- Integrated obstacle-avoidance algorithms and interactive elements.

## LEADERSHIP

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**INIT Build Program Manager** | *INIT Student Org. & E-Board Member*      January 2025 - December 2025

- Led a large-scale student development initiative, mentoring **200+** members and coordinating the formation of **12+** high-impact project teams through strategic planning and resource management.
- Increased member applicants to a **record-high of 250+ students** and expanded the team lead cohort from **12 to 18 leads**, significantly enhancing program capacity and impact.
- Created and launched new initiatives including the **Team Lead Mixer** to combat imposter syndrome among prospective applicants, and the **Team Lead Token program** to recognize and appreciate leadership contributions.
- Improved logistics and communication between program members and executive board, enhancing decision-making efficiency and ensuring timely execution of key initiatives.
- Managed event planning and execution for 200+ participants, including a revamped Build Orientation designed to foster engagement, trust, and team cohesion between leads and members.

- Authored and published the **Build Book**, a comprehensive record of team projects and accomplishments, establishing an institutional knowledge base and elevating program visibility.

**ShellHacks Organizer | INIT**

January 2025 - September 2025

- Organized and Co-ordinated the scheduling for **41+** volunteers and successfully executed the run of show for the event. Participated in the judging for **1400+** hackers for various categories.

## TECHNICAL SKILLS

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**Programming Languages:** Python, MySQL, PostgreSQL, JavaScript, TypeScript, Java, C#, C, C++

**Frameworks:** Flask, Postman, Git, MongoDB, Vue.js, Vuetify, React, Streamlit, Node.js, Bootstrap

**Developer Tools:** Git, VS Code, Visual Studio, Docker

**Libraries:** Pandas, NumPy, Matplotlib, PyTorch, Transformers (Hugging Face), Scikit-Learn, Gemini API, BERT