Joshua Matni

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Education

University of Nevada, Reno — Reno, NV

Bachelor of Science in Computer Science and Engineering, Minor in Statistics — *Expected May 2026*

Relevant Coursework: Data Structures, Analysis of Algorithms, Machine Learning, Data Mining, Database Management Systems, Regression and Linear Models, Computer Organization, Multivariable Calculus, Linear Algebra, Probability and Statistics, Discrete Mathematics, Programming Concepts and Implementation

Experience

Bolt Data — Jun. 2024 – Present

IoT Software Developer Intern - Incoming Summer 2024 — *Manhattan, KS (Remote)*

Breadware — Jan. 2024 – May 2024

Software Engineer Intern - (Generative AI) — *Reno, NV (Remote)*

- Built a Retrieval-Augmented Generation chatbot using LlamaIndex's advanced NLP techniques, enabling efficient search and response for complex queries
- Achieved a **98% response accuracy** across diverse developer-related topics using LlamaIndex's Core Evaluation Modules, significantly enhancing the chatbot's performance and reliability
- Reduced average query response time from 10 to 2 seconds, an **80% reduction**, by integrating Milvus, a high-performance vector database, to store and retrieve relevant documents
- Designed and implemented a user-friendly Streamlit interface for the chatbot, containerized with Docker for seamless deployment, achieving a **90% adoption rate** among the developer team within the first month

Stanford Linear Accelerator Center - Linac Coherent Light Source — Jun. 2023 – Aug. 2023

Software Engineer Intern — *Menlo Park, CA*

- Monitored data transfer performance and developed automation for LCLS Experiment Portal API access using Python, ensuring smooth operation across **80+ experiments**
- Optimized memory usage and accelerated data retrieval by **24%** for over **85,000** LCLS Beam User experimental data files using Python generators and MySQLdb
- Improved experimental reliability by **7%** across **80+** LCLS experiments through data analysis, cleaning, and visualization with Jupyter Notebooks, Pandas, and Matplotlib

Projects

Pristina | *Python, Scikit-learn, NumPy, Pandas, PostgreSQL, Brawl Stars API*

- Developed a machine learning-powered Discord bot for **5,000+ active Brawl Stars players**, leveraging a logistic regression model trained on **60,000+** match outcomes to predict 1v1 outcomes based on player statistics
- Enhanced bot functionality by integrating the Brawl Stars API and PostgreSQL to dynamically link Discord user mentions to Brawl Stars player tags

Auralys | *Python, JavaScript, Flask, Next.js, OpenAI API, Spotify API*

- **Led a team of 5** to win first place and **$500** in a 38-hour hackathon by developing a Spotify playlist generator that integrates Flask, Next.js, OpenAI, and Spotify APIs to create personalized playlists with **500+ songs**
- Achieved **25+ monthly active users**, demonstrating the application's real-world utility and user engagement

Resume Match Analyzer | *Python, Transformers*

- Engineered a simple Resume Match Analyzer to evaluate and score resume alignment with job requirements using Python and Hugging Face's Transformers for AI-powered Zero-Shot Classification

Pong | *C++*

- Developed an interactive Pong game in C++ during a 38-hour hackathon, operating the Raylib library, and OOP principles to manage game components; **awarded first place and $400**

Technical Skills

Languages: Python, C++, C, SQL (mySQL, PostgreSQL), R, JavaScript
Development Tools: Git, Jupyter Notebook, Anaconda, VS Code, Docker, Amazon Web Services
Frameworks/Libraries: Flask, Next.js, Pandas, Matplotlib, NumPy, Scikit-learn, Streamlit
AI Tools: LlamaIndex, Milvus