

# Daniel Mamuza

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## EDUCATION

University of Nevada, Las Vegas

Aug. 2023 – May 2027

*Bachelor of Science in Computer Science, Minor in Mathematics, Dean's Honor List*

*GPA: 3.8 / 4.0*

## EXPERIENCE

Software Engineer Intern | Intellimind

Nov. 2024 – Present

- Engineered an internal chat messaging feature for clients using **WebSockets**, **DynamoDB**, **AWS Lambda**, and **API Gateway**, enabling low-latency and scaling to support **1,000+** concurrent users.
- Developed front-end chat context and hooks with **React** and Jotai to handle WebSocket and **REST API** calls, achieving **300ms** response times, reducing render latency, and improving real-time updates.
- Collaborated with a team to automate credit report generation, utilizing **Python** to integrate leveraging **Amazon Bedrock** for AI-driven HTML creation, converted to PDFs using WeasyPrint, and stored in **S3**.
- Played a key role in the system architecture of the AI-driven workflow by designing branching logic in **DynamoDB** for dynamic user interactions, and developed a responsive **React** and **Material UI** interface for seamless user experience.

Computer Science Teaching Assistant | University of Nevada, Las Vegas

Aug. 2024 – Present

- Tutored 400+ students through office hours, offering in-depth code debugging, constructive assignment feedback, and breakdowns of programming principles, leading to improved student understanding and academic success.

## PROJECTS

[Fate](#) | *TypeScript, Next.js, Redis, PostgreSQL*

March 2025 – Present

- Building a social hub app using **Next.js** to empower diverse user communities with group interactions and tailored media recommendations.
- Implementing a rule-based **recommendation engine** deployed on **AWS Lambda**, leveraging collaborative filtering techniques and user preference data to generate personalized group suggestions.
- Streamlined waitlist management and optimized user authentication by integrating **Redis**, reducing data retrieval times by **50%**, and **BetterAuth** for secure verification.

[Monk](#) | *TypeScript, Next.js, Tailwind CSS, PostgreSQL*

June 2024 – Aug. 2024

- Developed a full-stack Kanban board and note-taking SaaS app for task management with **Next.js**, integrating **user authentication** and role-based access control with **Clerk** to enhance security and support multi-user functionality.
- Managed database schemas to ensure scalability and data integrity for user CRUD operations with **Prisma ORM** and **PostgreSQL** via **Supabase**, enabling **50+ interactions per second** with minimal downtime.
- Enhanced data handling and backend interactions by **40%**, through the implementation of dynamic routing, API routes, middleware, and server actions.

[Jerald Bot](#) | *Python, Discord.py, OpenAI API, Giphy API*

May 2024

- Built a customized Discord chatbot using Discord.py that specializes in personalized plant-related inquiries, gaining experience in chatbot development and API integration.
- Integrated the **OpenAI API** for context-aware, personalized responses and the Giphy API for GIFs, enhancing user experience and engagement.

## LEADERSHIP

Webmaster | AI & Data Science Club & ACM UNLV

July 2024 – Present

- Developed and maintained websites for both [AI & Data Science Club](#) and [ACM UNLV](#) using **React**, **Tailwind CSS**, **Vite**, and **Next.js**, improving accessibility and engagement with club resources.
- Overhauled ACM UNLV's website, achieving a **25% improvement** in Lighthouse performance, accessibility, and SEO scores by optimizing assets and implementing responsive design.

## SKILLS

**Languages:** C/C++, HTML/CSS, JavaScript/TypeScript, Python

**Frameworks & Libraries:** Astro, Material UI, Next.js, React, Tailwind CSS, Zod

**Tools & Technologies:** API Gateway, Docker, DynamoDB, EC2, Git, Lambda, S3, Vite