

Daniel Mamuza

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EDUCATION

University of Nevada, Las Vegas <i>Bachelor of Science in Computer Science, Minor in Mathematics, Dean's Honor List</i>	Aug. 2023 – May 2027
	GPA: 3.8 / 4.0

EXPERIENCE

Software Engineer Intern Intellimind	Nov. 2024 – Present
<ul style="list-style-type: none">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 frontend 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, converting structured content to PDFs using WeasyPrint, and storing documents in S3 for access.	
Computer Science Teaching Assistant University of Nevada, Las Vegas	Aug. 2024 – Present
<ul style="list-style-type: none">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

Monk <i>TypeScript, Next.js, Tailwind CSS, PostgreSQL</i>	June 2024 – Aug. 2024
<ul style="list-style-type: none">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, supporting hundreds of users and 50 interactions per second.Enhanced data handling and backend interactions by 40%, through the implementation of dynamic routing, API routes, middleware, and server actions.Integrated Stripe for subscription management, enabling premium features such as extra boards and notes, and securely processing payments via the Stripe API.	

Jerald Bot <i>Python, Discord.py, OpenAI API, Giphy API</i>	May 2024
<ul style="list-style-type: none">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 through natural language processing and relevant visual content.	

Lord of the Rings Esolang <i>TypeScript, Deno</i>	Feb. 2024
<ul style="list-style-type: none">Engineered an esoteric interpreted programming language with a robust tokenizer, parser, and lexer, demonstrating compiler design and language implementation proficiency.Designed a comprehensive expression evaluation module that assesses strings, objects, booleans, and numbers.	

LEADERSHIP

Webmaster AI & Data Science Club	Sep. 2024 – Present
<ul style="list-style-type: none">Developed and maintained the <u>club's website</u> using React, Tailwind CSS, and Vite, improving club members' engagement and accessibility to events, resources, and projects.	

Webmaster Association for Computing Machinery UNLV	July 2024 – Present
<ul style="list-style-type: none">Achieved a 25% improvement in Lighthouse performance, accessibility, and SEO scores, by overhauling <u>ACM UNLV's website</u> using TypeScript and Next.js.Competed in ICPC 2024 South California regional, showcasing algorithm design and problem-solving skills in collaboration with teammates.	

SKILLS

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

Frameworks & Libraries: Astro, Framer, Material-UI, Next.js, React, Prisma, Tailwind CSS, Zod

Tools & Technologies: AWS DynamoDB, AWS Lambda, AWS S3, Docker, Figma, Git, Supabase, Vercel, Vite