

# Daniel Mamuza

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## EDUCATION

<b>University of Nevada, Las Vegas</b> <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

<b>Software Engineer Intern</b>   Intellimind	Nov. 2024 – Present
<ul style="list-style-type: none"><li>Engineered an internal chat messaging feature for clients using <b>WebSockets</b>, <b>DynamoDB</b>, <b>AWS Lambda</b>, and <b>API Gateway</b>, enabling low-latency and scaling to support <b>1,000+</b> concurrent users.</li><li>Developed frontend chat context and hooks with <b>React</b> and Jotai to handle WebSocket and <b>REST API</b> calls, achieving <b>300ms</b> response times, reducing render latency, and improving real-time updates.</li><li>Collaborated with a team to automate credit report generation, utilizing <b>Python</b> to integrate leveraging <b>Amazon Bedrock</b> for AI-driven HTML creation, converting structured content to PDFs using WeasyPrint, and storing documents in <b>S3</b> for access.</li></ul>	
<b>Computer Science Teaching Assistant</b>   University of Nevada, Las Vegas	Aug. 2024 – Present
<ul style="list-style-type: none"><li>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.</li></ul>	

## PROJECTS

<b>Monk</b>   <i>TypeScript, Next.js, Tailwind CSS, PostgreSQL</i>	June 2024 – Aug. 2024
<ul style="list-style-type: none"><li>Developed a full-stack Kanban board and note-taking SaaS app for task management with <b>Next.js</b>, integrating <b>user authentication</b> and role-based access control with <b>Clerk</b> to enhance security and support multi-user functionality.</li><li>Managed database schemas to ensure scalability and data integrity for user CRUD operations with <b>Prisma ORM</b> and <b>PostgreSQL</b> via <b>Supabase</b>, supporting hundreds of users and 50 interactions per second.</li><li>Enhanced data handling and backend interactions by <b>40%</b>, through the implementation of dynamic routing, API routes, middleware, and server actions.</li><li>Integrated <b>Stripe</b> for subscription management, enabling premium features such as extra boards and notes, and securely processing payments via the Stripe API.</li></ul>	
<b>Jerald Bot</b>   <i>Python, Discord.py, OpenAI API, Giphy API</i>	May 2024
<ul style="list-style-type: none"><li>Built a customized Discord chatbot using <b>Discord.py</b> that specializes in personalized plant-related inquiries, gaining experience in chatbot development and API integration.</li><li>Integrated the <b>OpenAI API</b> for context-aware, personalized responses and the <b>Giphy API</b> for GIFs, enhancing user experience and engagement through natural language processing and relevant visual content.</li></ul>	
<b>Lord of the Rings Esolang</b>   <i>TypeScript, Deno</i>	Feb. 2024
<ul style="list-style-type: none"><li>Engineered an esoteric interpreted programming language with a robust tokenizer, parser, and lexer, demonstrating compiler design and language implementation proficiency.</li><li>Designed a comprehensive expression evaluation module that assesses strings, objects, booleans, and numbers.</li></ul>	

## LEADERSHIP

<b>Webmaster</b>   AI & Data Science Club	Sep. 2024 – Present
<ul style="list-style-type: none"><li>Developed and maintained the <u>club's website</u> using <b>React</b>, <b>Tailwind CSS</b>, and <b>Vite</b>, improving club members' engagement and accessibility to events, resources, and projects.</li></ul>	
<b>Webmaster</b>   Association for Computed Machinery UNLV	July 2024 – Present
<ul style="list-style-type: none"><li>Achieved a <b>25%</b> improvement in Lighthouse performance, accessibility, and SEO scores, by overhauling <u>ACM UNLV's website</u> using <b>TypeScript</b> and <b>Next.js</b>.</li><li>Competed in <b>ICPC 2024 South California regional</b>, showcasing algorithm design and problem-solving skills in collaboration with teammates.</li></ul>	

## 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