Ethan Miller

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Grand Rapids, Michigan

EDUCATION

Grand Valley State University   **Grand Rapids, Michigan**
Bachelor of Computer Science   *August 2020 – December 2023*
- GPA: 3.83

PROFESSIONAL EXPERIENCE

Gordon Food Service   **Grand Rapids, Michigan**
Full Stack Conversation Designer   *Dec 2024 - Present*
- Created and deployed an internal digital assistant integrating multiple agents to track truck ETAs, manage case sale data, parse customer prospect details, and retrieve purchase order statuses. Increased sales capacity by the equivalent of 20 full-time employees through process automation.
- Developed a help desk agent leveraging ServiceNow's knowledge base to automate support inquiries via Google Chat, including seamless escalation to live agents for complex issues.
- Established and led a Chatbot Acceleration Program, onboarding and mentoring two new Full Stack Conversation Designers, strengthening the team's conversation design expertise and project delivery capacity.

Digital Product Specialist   *Jan 2024 – Dec 2024*
- Enhanced Python-based ETL processes by incorporating an environment field, enabling targeted filtering and more robust analytics across in-house and hosted platforms.
- Created hybrid conversational flows merging generative AI with standard conversation design best practices, delivering advanced and tailored user experiences.
- Wrote Engaging chatbot copy and conversation flows, prompting generative AI to produce accurate, well-formatted responses.
- Collaborated with cross-functional teams to gather stakeholder requirements and provide scheduled analytics updates, ensuring alignment with business goals.

Digital Solutions Intern   *May 2023 – Jan 2024*
- AI-based virtual assistants in natural language understanding (NLU) and communication strategies, enhancing conversational quality and user satisfaction.
- customer needs and linguistic patterns to preemptively address common inquiries and ensure positive virtual agent interactions.
- system logic and functions within conversation flows, working alongside developers to integrate webhook data seamlessly.
- a virtual agent from scratch to cut response times and save $41,600 annually for an internal team.

PROJECTS

GVSU Real Estate Club Website:
- Developed a full-stack web application using React (frontend) and Node.js (backend) to streamline internal club communications.
- Integrated Firestore as the database, enabling non-technical club members to update content independently through the UI.
- Established RESTful API calls to automatically sync Firestore data in real time, to keep content up to date and consistent.

Voxel Game Engine (C++ / OpenGL):
- Engineered a dynamic voxel terrain engine in C++ using OpenGL for texture rendering, integrating custom shader programs for enhanced visual fidelity.
- Implemented Perlin noise for realistic terrain heightmaps and normal maps, creating varied landscapes and surface features.
- Boosted performance by incorporating frustum culling, back-face culling, and occlusion culling to efficiently manage rendering and reduce unnecessary draw calls.

TECHNICAL PROFICIENCIES

Languages: Python, C++, JavaScript, C, Java, SQL, HTML,
Web & Frameworks: React, Angular, NextJS, Node.js
Cloud & DevOps: Google Cloud Platform, Docker, GitHub/GitLab, Gradle
AI & Conversation Design: Voiceflow, Conversational Agents/Dialogflow CX/ES, Figma
Additional Tools: Jira, Postman, OpenGL, Unity, Lookerstudio, Neo4j, BigQuery, Firestore