Emen Deng

Email: emen.dengg@gmail.com || Linkedin: @emen-deng || Github: e-deng

Skills

Languages: JavaScript, Java, SQL, familiar with Python, C#, C, MySQL
Tools/Libraries: React, Git, AWS, MongoDB, Node, Jira, Confluence, REST, jQuery, Express, Insomnia
Other skills: Agile, SDLC, SCRUM, Unity, Cameo Systems Modeler, OracleVM

Work Experience

Intellectra AI – Full Stack
Jun 2025 – Present, Toronto, ON

- Designed and implemented an automated workflow using n8n to generate detailed book summaries via AI, streamlining content creation and research.
- Conducted thorough testing of workflows and web features, identifying and resolving critical issues to ensure high system reliability and performance.
- Improved the company website's SEO score from 40 to 70 by conducting targeted keyword research, optimizing metadata and structure, and implementing technical SEO best practices.
- Built the company's website from scratch using Carrd, resulting in a responsive, fast-loading site that improved user engagement and supported SEO gains.

T&T Supermarket – Merchandise Admin Software Intern
Apr 2024 – Jul 2024, Markham, ON

- Developed Python-based automation with LLM integration to auto-generate product descriptions and streamline data entry, cutting manual workload and accelerating content production.
- Translated and updated over 10,000 product database entries, improving international accessibility and overall data quality.
- Collaborated remotely with team members to ensure accuracy and consistency of multilingual product information.
- Improved database structure and organization by systematically categorizing and standardizing product labels.

Freelance – Web Development
Feb 2024, Toronto, ON

- Developed user-friendly and visually appealing web pages using Next.js and React, ensuring seamless user experiences across devices
- Collaborated closely with the client design team to translate wireframes and mockups into interactive and engaging web experiences, ensuring consistency with brand guidelines
- Conducted thorough testing and debugging to identify and resolve compatibility issues across different browsers and devices, ensuring a consistent experience for all users.

Hackthe6ix – Marketing Director
Nov 2023 – Present, Toronto, ON

- Promoted from Marketing Executive to Marketing Director, leading strategy and execution of multi-channel campaigns that boosted event visibility and engagement.
- Developed and executed social media, email marketing, and content creation campaigns, driving a 1,000+ follower increase in under 6 months and ensuring a successful hackathon promotion.
- Managed public email and social media communications, ensuring timely responses and fostering strong community engagement.

Projects

Medical Competency Evaluation using AR *Unity, C#, Mixed Reality Toolkit*

- Developed a Unity-based AR application using C# and Microsoft MRTK for Microsoft HoloLens 2 to enable real-time, remote supervision and guidance for junior surgeons, enhancing surgical training through live annotations, two-way audiovisual communication, and interactive 3D visualization.
- Implemented features for topographical data capture, annotation, and session recording, allowing for reflective learning and improving the assessment of surgical competencies in compliance with competency-based medical education (CBME) standards.
- Optimized real-time data streaming between HoloLens 2 and remote devices, ensuring seamless and precise communication for surgical guidance.

Personal Website *Next.js, Tailwind, React ~ emendeng.me*

- Developed a personal website to showcase my software engineering skills, incorporating technologies such as HTML, CSS, JavaScript, and React for a dynamic user experience. Designed the website layout and aesthetics to enhance user engagement and accessibility.
- Integrated a Spotify API to create an interactive section that demonstrates API usage and data handling. Employed responsive design principles to ensure optimal viewing across various devices.
- Utilized version control systems like Git for efficient project management and collaboration.

Web Music Player *JavaScript, Node.js, AWS, REST*

- Built a web application, deployed on AWS using EC2, that manages music search across various artists, genres, and tracks, building a community of users to interact and share music
- Developed a REST API to fetch and manipulate data from the FreeMusicArchive dataset where users can create playlists and add tracks for seamless music management
- Implemented authentication with Passport, creating a secure login experience for users

Education

Bachelors of Engineering Science – Software Engineering
University of Western Ontario · Graduated April 2025
Relevant Course Work:
Script Programming · Data Structures & Algorithms · Web Development · Databases · Project Management · OS · ML/AI