

Mustafa Darras

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WORK EXPERIENCE

AI Developer | Scale AI

May. 2024 – Jan 2025

- Developed AI-driven prompt strategies, enhancing data processing accuracy by 45%
- Led A/B testing initiatives, fine-tuning model performance to improve response quality and operational efficiency.
- Partnered with cross-functional teams to refine AI models, driving significant improvements in business analytics.
- Assessed the factuality and relevance of AI-generated content, providing feedback to enhance model performance

SOFTWARE ENGINEERING-RELATED PROJECTS

webGPT | AI Developer

Aug. 2024 – Dec. 2024

- Developed webGPT, an AI chatbot using the Gemini 2 Pro API to assist in generating responsive web pages.
- Fine-tuned the model with a custom dataset of HTML/CSS/JS dataset to enhance design and integrity.
- Achieved 40% boost in aesthetics and 30% structural gains over GPT-4o using evaluation metrics.
- Designed an intuitive interface that allows users to input web page URLs and receive detailed grading reports.
- Designed modular prompt templates for framework-specific web generation.
- Built an automated pipeline to test code against WCAG accessibility standards.

InterviewAI | Full Stack Developer

Mar. 2025 – Apr. 2025

- Integrated Gemini 2.0 Flash API to generate personalized interview questions from resume data.
- Built and deployed a full-stack Flask app with SQLAlchemy ORM and responsive custom frontend.
- Engineered secure PayPal payments with token-authenticated, time-limited report downloads.
- Parsed DOCX/PDF resumes to extract candidate data for tailored interview flows.
- Added Edge-TTS voice synthesis and Web Speech API for natural voice-based interaction.
- Managed session states with unique IDs and stored chat transcripts as JSON.
- Designed AI evaluation logic scoring users on communication, knowledge, and role fit.
- Modularized backend structure for clean config, models, and logic separation.

AQUALUX - TORONTO | Web Developer

May. 2025

- Designed and developed a high-end, responsive website for a luxury yacht and jet ski rental service.
- Built dynamic front-end interactions using JavaScript to enhance user experience and booking engagement.
- Integrated mobile-first design principles, ensuring seamless navigation across all devices and screen sizes.
- Collaborated with stakeholders to align design and content with business goals, optimizing for conversions.

AIELTS | AI Developer

May. 2025 - Present

- Developed an AI-powered IELTS prep platform using Flask and Gemini 2.5 Pro API.
- Built algorithms to generate IELTS-style content with dynamic difficulty and topic variation.
- Integrated Edge-TTS with SSML for natural audio in listening test simulations.
- Engineered validation systems for multiple IELTS question types (MCQ, gap-fill, matching, etc.).
- Designed session management with JSON storage, auto band score calculation, and analytics.
- Created responsive front ends with timers, audio playback, and interactive question formats.
- Optimized prompts to ensure academic accuracy, topic diversity, and content coherence.

EDUCATION & CERTIFICATIONS

Bachelor of Science(BSc): Computer Science, (Software Engineering Concentration | Entrepreneurship and Innovation Minor)

Toronto Metropolitan University, Toronto

- Relevant Coursework: Introduction to Software Engineering, Algorithms, Artificial Intelligence, Data Structures, Software Project Management, Entrepreneurial Behaviour and Strategy, Identifying Opportunities, Introduction to C and UNIX, Web Development, Database Systems
- Certificate of AI Mastery **JT Foxx**, World's #1 Wealth and Business Coach & **Francie Baldwin**, CEO of Mega Events

SKILLS

- **Technical**: Python (Advanced), JavaScript, HTML/CSS, SQL, Bash/Shell, Flask, REST APIs, Database Design
- **AI/ML Technologies**: Gemini AI, Edge-TTS, NLP, Prompt Engineering
- **Database Knowledge**: PostgreSQL, SQLAlchemy ORM, JSON Data Handling, Token-based Security