

Abdelrahman Youssef

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Education

University of Rochester

Bachelor of Science, Computer Science

Rochester, NY

Dec 2023

Relevant Coursework: Artificial Intelligence, Web Programming, Design & Analysis of Efficient Algorithms, Computer Organization, Database Management, Android Development, Computation & Formal System.

Experience

Remotasks

AI Code Quality Specialist

Remote

Jan 2024 – Present

- Increased technical accuracy and readability of AI-generated content across hundreds of interactions by applying expertise in code and markdown formatting.
- Enhanced reliability and performance of conversational AI technologies through detailed review processes, directly contributing to a measurable improvement in user experience and educational value.
- Ensured AI-generated responses maintained factual accuracy, clarity, and adherence to user guidelines, directly improving content quality and user engagement.

University of Rochester

Full-Stack Developer

Rochester, NY

Aug 2022 – Dec 2023

- Led and mentored a five-member team in enhancing the LASSO, a MERN-stack application, conducting comprehensive code reviews and establishing standardized documentation, resolving technical challenges to ensure streamlined onboarding and sustained application quality.
- Optimized the application's performance drastically, reducing load times by 78% and redesigning the user interface, resulting in a 37% improvement in user satisfaction by focusing on user-centric design and efficiency.
- Engineered and delivered an innovative online reservation system with advanced authorization, securing an 85% user adoption rate and improving overall business operations and customer engagement.

Projects

GPT-SYNC AVATAR

github.com/3bdrahman/GPT-Sync-Avatar | Jun 2023 – Aug 2023

- Integrated OpenAI's Whisper and ChatGPT APIs to create an intelligent response system, transcribing voice messages and generating intelligent text responses, enhancing user interaction through natural and responsive communication.
- Converted text responses into natural-sounding speech using Microsoft Speech SDK, optimizing user experience through intuitive and coherent voice responses.
- Engineered a real-time transmission system using Socket.IO for seamless audio and Viseme data transfer between front and back ends, ensuring synchronized and fluid data flow.
- Devised an intricate real-time lip-sync animation system using morph targets and audio cues, achieving expressive and natural mouth movements to enhance visual realism and user engagement.

SELF-DRIVING CAR SIM

github.com/3bdrahman/Self-driving-car | May 2022 – Jul 2022

- Employed segment intersection techniques and added dummy cars in a 2D canvas environment, enhancing collision detection and simulating authentic traffic conditions for improved realism and functionality.
- Architected and optimized a layered feed-forward neural network, integrating an autopilot control feature and enabling parallelized assessments of over 1,000 car instances, refining outcomes, and enhancing system efficiency.
- Developed a specialized visualizer class on a bespoke 2D canvas, vividly illustrating intricate neural network operations, including inputs, outputs, weights, and biases, offering enhanced user understanding and interaction through detailed representations.

Skills

Languages & Frameworks: Java, JavaScript, Python, React, Node.js, Express.js, MongoDB, Tailwind CSS, Bootstrap.

DevOps & Systems: Git, Azure Cloud Computing, Red Hat Linux Server Administration.

Project Management: Agile, Scrum (Jira), Cross-functional Collaboration, Sprint-planning.