ABDELRAHMAN (YOUSSEF)

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EDUCATION

Simon Business School, University of Rochester (A STEM-Certified Program)   **Rochester, NY**
Master of Science in AI in Business (GPA: 3.6)   **Dec 2025**
- Merit Scholarship recipient.
- Coursework: Analytics Design, Regression Analysis, Microeconomics & Marketing Strategy, AI & Business, Professional Communication, Operations Management.

University of Rochester   **Rochester, NY**
Bachelor of Science in Computer Science, Minor in Business   **Dec 2023**

PROFESSIONAL EXPERIENCE

Outlier.ai   **Remote, US**
AI Code Expert   **Feb 2024 – Aug 2024**
- Resolved technical challenges in model training by collaborating with cross-functional teams of data scientists and engineers, addressing model accuracy and ensuring alignment with project mandates.
- Achieved a 23% increase in precision by refining LLM code accuracy, boosting overall model performance and reliability.
- Elevated project ranking by 10 places through rigorous fine-tuning and high annotation standards, enhancing model accuracy and reliability.

University of Rochester   **Rochester, NY**
Full-Stack Lead Developer   **Apr 2023 – Dec 2023**
- Led a team of six developers, providing mentorship through regular code reviews and establishing standardized project documentation, maximizing rollout efficiency.
- Achieved an 85% user adoption rate of loaner portal by digitizing equipment reservation and lending processes.
- Drove a 78% reduction in application latency by implementing post pagination and lazy loading techniques.

Full-Stack Developer   **Aug 2022 – Apr 2023**
- Decreased system downtime by 15% through proactive troubleshooting and comprehensive documentation.
- Revamped React components to create a more intuitive UX, improving user satisfaction by 37%.

PROJECTS

Clay   **https://github.com/3bdrahman/clay | Oct 2024 – Present**
- Engineered a modular RAG pipeline using LangGraph with vectorstore database, web search, and Python analysis toolkit, enabling multi-source context retrieval.
- Implemented a self-correction mechanism to evaluate context relevance, code functionality and answer quality, reducing hallucination and improving response accuracy.
- Augmented agent's analytical capabilities with a real-time Python code execution, allowing for dynamic data analysis, automated error correction and result visualization.

AvatarGPT   **github.com/3bdrahman/AvatarGPT | Jun 2023 – Aug 2023**
- Designed a real-time data transmission solution with Socket.IO to facilitate seamless audio and Viseme data synchronization between front and back ends.
- Developed a sophisticated real-time lip-sync animation system with morph targets and audio cues, resulting in expressive and natural mouth movements.
- Integrated OpenAI's Whisper and ChatGPT APIs to create a realistic conversational experience with an avatar-based agent.

ADDITIONAL INFORMATION

- **Certificates:** Google Advanced Data Analytics.
- **Programming Languages:** Python, Java, JavaScript, SQL.
- **Frameworks & Libraries:** Pandas, NumPy, Matplotlib, Seaborn, SciPy, Streamlit, Tableau, React, Node.