

Murad Imre

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EDUCATION

Rice University

Houston, TX

Bachelor of Science in Computer Science | Minor in Data Science

PROFESSIONAL EXPERIENCE

Reminisce AI | [reminisce-ai.vercel.app](#)

Houston, TX

Co-Founder & Software Engineer

June 2026-Present

- Founded and shipped an AI storytelling product that transforms family voice recordings into personalized animated films
- Communicated with 30+ prospective users to assess use cases and identify workflow requirements for product development
- Built end-to-end voice-to-video pipeline in Node.js and TypeScript, orchestrating LLM-driven video generation and synthesis
- Piloted the product with 20 families, managing onboarding, technical troubleshooting, output quality, and iterative delivery

Milkor Integrated Systems

Cape Town, South Africa

Software Engineering Intern

June 2025-August 2025

- Engineered a computer vision product for 3D reconstruction of its surroundings using Python, C++, Linux, OpenCV
- Produced a standalone perception system designed for deployment across autonomous UAV drone platforms
- Debugged hardware interfaces, sensor streams, image processing, and model inference across end-to-end perception pipeline
- Tested the system during live UAV demonstrations, processing 100+ GB of flight data to validate perception workflows

(SLB) Schlumberger

Houston, TX

Backend and Architectural Design Developer

February 2025 - April 2025

- Designed and built a multi-user safety-training platform across a custom C# engine, React editor, .NET services, and Azure
- Evaluated architectural tradeoffs and defined component, data-flow, and class designs for scalable real-time training scenarios
- Translated internal stakeholder requirements into scalable dynamic multi-user scenarios to support thousands of users
- Implemented speech parsing, SignalR event handlers, and unit/end-to-end tests to support synchronized application workflow

PROJECTS

Tajweed Mate

Houston, TX

Backend & Product Engineer

January 2026-Present

- Deployed gamified AI pronunciation-coaching features for a mobile app with 500,000+ downloads across iOS and Android
- Designed an end-to-end speech inference pipeline integrating APIs, structured scoring, and pronunciation-error detection
- Built production AI workflows on AWS using API integrations, asynchronous processing, retry logic, and failure handling

Real-Time Messaging System

Houston, TX

Full Stack Developer

August 2024-December 2024

- Built a real-time messaging application with a TypeScript frontend and a RESTful NoSQL backend written in Go
- Implemented JSON Schema validation, token authentication, patch operations, and concurrent skip-list for thread-safe access
- Architected event-driven message delivery using async/await and Server-Sent Events for low-latency, non-blocking updates
- Added asynchronous persistence and end-to-end tests with more than 90% coverage across concurrent messaging workflows

Machine Learning Research - Rice University Fellowship

Houston, TX

Research Engineer - Advised by Dr. Sinan Kockara

May 2024-August 2024

- Developed and fine-tuned a biomedical NLP AI classifier that achieved 0.902 AUC, outperforming the 0.857 benchmark
- Built PyTorch-based transformer training and inference pipelines using BioMedLM, including preprocessing and evaluation
- Enhanced the benchmark dataset by updating 10,000+ records through web scraping, improving model training parameters
- Benchmarked against RAG baseline, achieving 6-percentage-point higher F1 and more consistent biomedical classification

LEADERSHIP EXPERIENCE

Rice Computer Science Department

Houston, TX

Teaching Assistant

August 2025-December 2025

- Mentored 32 students on system architecture for Software Engineering Methodology under Professor Wong
- Managed 4 student teams by tracking progress, resolving challenges, and giving feedback on design decisions and debugging

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, Go, C++, C, C#, SQL, Java

AI & Machine Learning: PyTorch, TensorFlow, Transformers, NLP, Computer Vision, LLM Applications, RAG, Model Training & Inference, Fine-Tuning, Hugging Face, OpenAI API, Anthropic API

Backend & APIs: Node.js, React, Next.js, .NET, REST APIs, Third-Party API Integrations, WebSockets, Server-Sent Events, Event-Driven Systems, Microservices

Data & Cloud: PostgreSQL, MongoDB, JSON Schema, Structured Data, AWS, Azure, Docker, Kubernetes, Linux

Engineering: System Design, Async Programming, Debugging, Root-Cause Analysis, Production Troubleshooting, Automated Testing, CI/CD, Git

AI-Assisted Development: Cursor, Claude Code, GitHub Copilot