

# YUSUF WADI

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## EDUCATION

### University of Texas - Dallas

August 2020 - December 2023

Bachelor's, Computer Science

- Courses: Machine Learning, Artificial Intelligence, Computational Methods for Data Scientists, Data Structures and Algorithms II, Computer Architecture

## PROFESSIONAL EXPERIENCE

### Scale AI

Remote

QA Engineer

October 2023 - Present

- Spearheading the development and debugging of intricate code and test cases to ensure the production of high-quality training data for a generative AI code model, first of its kind at Scale.
- Utilized debugging techniques to identify and resolve issues in the training data, optimizing the performance of the generative AI model.

### Monoware Studios

Remote

Web Developer

May 2022 - August 2022

- Built an end-to-end webapp using Vue and Nuxt.JS, stylized with TailwindCSS.
- Spearheaded a new company initiative under NDA

## PROJECTS & OUTSIDE EXPERIENCE

### Speech-Driven Virtual Assistant

Project Lead

September 2022 - November 2022

- Engineered an interactive voice-driven assistant with a finetuned GPT-3.5.
- Finetuned model with synthetically generated dataset
- Outperformed the base-model by 3x as the fine-tune reduced redundancies found in base.

### High Frequency Low Latency Trading Algorithm

Project Lead

March 2023 - March 2023

- Led a team to create low latency trading algorithms for Optiver RTG project, optimizing profit generation and mitigating risk using comprehensive financial time series data.
- Accelerated algorithmic performance by 9x through the application of Apache Spark and Hyperopt for parallelizing trials.

### End-to-End LLM Backed Therapy Chatbot

Project Lead

August 2022 - September 2022

- Developed and implemented a therapy chatbot, from conceptualization to a fully functional product, integrating a 10MB dataset of anonymous therapy transcript data obtained through a custom-built web scraping algorithm.
- Utilized the Nuxt.Js framework to construct a performant web interface hosted on a Linode Cloud server and relayed through Nginx at <http://calypsoai.net/calypso>

### Neural Radiance Field 3D Scene Capture to VR Pipeline Analysis

Research Assistant

January 2023 - May 2023

- Examined and evaluated various NeRF models with NeRF Studio including Mip-Nerf, Nerfacto, and Instant-NGP for performance and applicability in immersive environments, highlighting Nerfacto's potential for commercial use with training time of 9-11 minutes and 200-400 MB model size, especially relevant in the new era of AI and spatial-computing.

### Raybender - AI-Powered Virtual Assistant for Digital Productivity

AI Engineer

August 2023 - December 2023

- Harnessed the power of contemporary LLMs in a Swift/MacOS environment to produce an AI virtual assistant aimed at redefining user interactions with their devices through the use of natural language.
- Achieved efficient application performance with a 6ms parse time, 66MB of memory and 0.38 cores on average.

## SKILLS

**Languages:** C#, C++, Java, Python, PHP, SQL, HTML, XML, Ruby, JavaScript, Verilog, Swift, VBScript

**Frameworks:** Tensorflow, Keras, Apache Spark, PyTorch, tinygrad, React Native, Vue, Nuxt, Node.js

**Platform/Services:** iOS/Swift, Android Development, Linux, Docker, Git, WSL, Unity3D, Kali, Nginx, Hadoop