

Bryant McArthur

1044 W 400 S American Fork, UT 84003 - bryant0918@gmail.com – (385) 500-7272
www.github.com/bryant0918 – www.bryantmcarthur.com – www.linkedin.com/in/bryant-mcarthur

Summary

Machine Learning Engineer with over 3 years of senior experience delivering production-grade AI solutions. Expertise includes designing and training ML and AI models, integrating Agentic AI and RAG for personalized experiences and automated systems. Proven track record in developing efficient data pipelines and scalable cloud deployments. Proficient in containerization, cloud infrastructure and modern LLMs to drive innovative product enhancements.

Experience

Head of Machine Learning <i>Addavox</i>	May 2022 – Present <i>Lehi, Utah</i>
<ul style="list-style-type: none">Responsible for All ML and AI Models from Model Architecture Design, Data Collection & Processing, and TrainingImplement Model APIs into the Product Pipeline and Oversee Cloud Infrastructure for AI Workers	
Machine Learning Engineer <i>Ditto</i>	June 2024 – August 2024 <i>Orem, Utah</i>
<ul style="list-style-type: none">Designed and Built Cross-Lingual Prosody Mapping Text-To-Speech Model with Speaker Voice Cloning	
Lead Consultant Founding Partner CFO <i>Parsha Works</i>	January 2022 – October 2024 <i>Provo, Utah</i>
<ul style="list-style-type: none">Deployed and Sold Full-Stack Event Ticketing Software MVP in Three MonthsBuilt Software for Automated, Customized, and Timely Real Estate Leads	
Sales Rep Team Lead <i>Moxie Services</i>	April 2020 – September 2021 <i>Dallas, Texas</i>
<ul style="list-style-type: none">Led the Company Nationwide Consistently in Individual Sales Door-to-Door on a Day-to-Day BasisGenerated and Responsible for over \$1 Million in Revenue for Moxie	

Education

Master of Computer Science <i>Texas A&M University</i>	December 2024 <i>College Station, Texas</i>
<ul style="list-style-type: none">GPA: 3.86/4.00Data Mining and Analysis	
<ul style="list-style-type: none">Machine Learning EngineeringAlgorithms & Optimization	
<ul style="list-style-type: none">Deep Learning, AI & Reinforcement LearningDistributed Systems & Cloud Computing	
BS, Applied & Computational Mathematics Emphasis (ACME) <i>Brigham Young University</i>	April 2023 <i>Provo, Utah</i>
<ul style="list-style-type: none">GPA: 3.93/4.00Concentration: Linguistics	
<ul style="list-style-type: none">Machine Translation & NLP	

Publications and Projects

IEEE/CVF WACV 2025 Workshop: AI for Multimedia Forensics and Disinformation Detection	February 28, 2025
<ul style="list-style-type: none">“HFMF: Hierarchical Fusion Meets Multi-Stream Models for Deepfake Detection”	
Low Rank Adaptation	December 2023
<ul style="list-style-type: none">Finetuned Stable Diffusion Model to Generate Custom Pokemon Using Low-Rank Adaptation (LoRA)	
Wildfire Predictions	April 2023
<ul style="list-style-type: none">Predicted Regional Wildfires by Forecasting Wildfire Data Using ARIMA, HMM, Kalman Filter, and Prophet Models	
Multilingual Neural Machine Translation Model	March 2022
<ul style="list-style-type: none">Cleaned and Multi-way Aligned Data to Train a Complete MNMT System for Polish, Spanish, Czech, & EnglishAnalyzed Bleu Scores with Corresponding Bilingual Models on Untrained Language Pairs	
Speech to Speech Translation Model	February 2022
<ul style="list-style-type: none">Created Pipeline using Automatic Speech Recognition, Text to Text Machine Translation and Foreign Language Speech Synthesizer Models to Recognize Audio input and Output Translated Foreign Speech	

Skills

<ul style="list-style-type: none">AI, ML, DLAWS, Google Cloud ConsoleData StructuresNumerical Linear Algebra	<ul style="list-style-type: none">Python, R, Ruby, JavascriptLLMs, Agentic AI, RAGStatisticsODEs, PDEs	<ul style="list-style-type: none">Pytorch, Tensorflow, CudaLinear and Nonlinear AnalysisGradient Descent & Optimization MethodsFourier Analysis, Kalman Filter
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Volunteer Work

Club Officer <i>Texas A&M Men's Soccer</i>	January 2024 – April 2025 <i>College Station, Texas</i>
<ul style="list-style-type: none">As Elected DK Coordinator: Manage Alumni Fundraising Events, Allocate Financials, Play and Compete with Team	
Full-Time Volunteer Representative & Assistant to the President <i>The Church of Jesus Christ of Latter-day Saints</i>	January 2018 – February 2020 <i>Warsaw, Poland</i>
<ul style="list-style-type: none">Analyzed Statistics and Led Weekly Trainings to Achieve Group Improvement Goals for Entire Mission	