

# Bryant McArthur

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## Education

### Masters, Computer Science

Texas A&M University

April 2025

College Station, Texas

- GRE: 324
- Reinforcement Learning      Algorithms & Optimization      Software Engineering

### BS, Applied & Computational Mathematics Emphasis (ACME)

Brigham Young University

April 2023

Provo, Utah

- Concentration: Linguistics
- Full Academic Scholarship
- GPA: 3.93/4.00      ACT: 35
- Machine Learning
- Natural Language Processing
- Machine Translation

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## Experience

### Head of Machine Learning

Addavox

May 2022 – Present

Lehi, Utah

- Developed, Customized and Trained Model for Voice Synthesis Retaining Vocal Qualities of Encoded Speech
- Engineered “Lip Sync” Model for Synchronizing Vocal Audio to Visual Mouth Movements in High-Dim Space

### Lead Consultant | Founding Partner

Parsha Works

January 2022 – Present

Provo, Utah

- Deployed Full-Stack Event Ticketing Software MVP for \$50,000 in Three Months
- Built Software for Automated, Customized, and Timely Real Estate Leads

### Sales Rep Team Lead

Moxie Services

April 2020 – September 2021

Dallas, Texas

- Led the Company Nationwide Consistently in Individual Sales Door-to-Door on a Day-to-Day Basis
- Generated and Responsible for over \$1 Million in Revenue for Moxie

### Full-Time Volunteer Representative & Assistant to the President

The Church of Jesus Christ of Latter-day Saints

January 2018 – February 2020

Warsaw, Poland

- Analyzed Statistics and Led Weekly Trainings to Achieve Group Improvement Goals for Entire Mission

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## Skills

- Proficient in Python, R, git, Ruby, C++, html
- Pytorch, Tensorflow, Pandas, Cuda
- Gradient Descent
- Data Structures
- Unix Shell
- Linear and Nonlinear Analysis
- Statistics
- Multivariable Calculus
- Singular Value Decomposition
- Fourier Analysis, Kalman Filter
- Numerical Linear Algebra
- ODEs, PDE

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## Relevant Projects

### Wildfire Predictions

April 2023

- Analyzed Wildfire Data Using ARIMA, HMM, Kalman Filter, and Prophet Models
- Accurately Predicted When and Where the Next Wildfires will Strike on a Regional Basis

### Multilingual Neural Machine Translation Model

March 2022

- Cleaned and Multi-way Aligned Data to Train a Complete MNMT System for Polish, Spanish, Czech, English
- Analyzed Bleu Scores with Corresponding Bilingual Models on Untrained Language Pairs

### Speech to Speech Translation Model

February 2022

- 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