

Bryant McArthur

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Education

BS, Applied & Computational Mathematics Emphasis (ACME)

Brigham Young University

April 2023

Provo, Utah

- Emphasis: Linguistics
- GPA: 3.94/4.00
- Relevant Coursework:
 - Linear and Nonlinear Analysis
 - Machine Learning
 - Machine Translation
 - Natural Language Processing
- Full Academic Scholarship
- ACT: 35
- GRE: 324
- Computation and Optimization
- Multivariable Calculus
- Mathematical Programming
- Statistics

Skills

- Proficient in Python, git, C++, Java, html, R
- Gradient Descent
- Data Structures
- Q-Learning
- Unix Shell
- Thompson sampling
- Krylov Subspaces
- A/B Testing
- Singular Value Decomposition
- Fourier Analysis
- Numerical Linear Algebra
- ODEs

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
- Implemented Speech and Source Separation with WavLM model

Lead Consultant

Parsha Works

January 2022 – Present

Provo, Utah

- Built Software for Automated, Customized, and Timely Real Estate Leads.
- Successfully Started and Currently Running My Own Business with Three Other Partners.

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
- Directed and Incentivized Team Administratively to Assure Individual and Group Goals were Achieved

Full-Time Volunteer Representative

The Church of Jesus Christ of Latter-day Saints

January 2018 – February 2020

Warsaw, Poland

- Supervised and Mentored 60 Volunteers to Encourage More Effective Work as Assistant to the President
- Analyzed Team Statistics and Led Weekly Trainings to Achieve Group Improvement Goals

Relevant Projects

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