Bryant McArthur

bryant0918@gmail.com – (385) 500-7272

www.github.com/bryant0918 – *www.bryantmcarthur.com* – www.linkedin.com/in/bryant-mcarthur

Education

Masters, Computer Science   **April 2025**
Texas A&M University   *College Station, Texas*
- GRE: 324
- Reinforcement Learning   Algorithms & Optimization   Software Engineering

BS, Applied & Computational Mathematics Emphasis (ACME)   **April 2023**
Brigham Young University   *Provo, Utah*
- Concentration: Linguistics
- Full Academic Scholarship
- GPA: 3.93/4.00   ACT: 35
- Machine Learning
- Natural Language Processing
- Machine Translation

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, PDEs

Experience

Head of Machine Learning   **May 2022 – Present**
Addavox   *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
- Built Demo used to pitch to Venture Capitalists to raise $10M for the Company

Lead Consultant   **January 2022 – Present**
Parsha Works   *Provo, Utah*
- Deployed Full-Stack Ticketing Software MVP for $50,000 in Three Months.
- 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   **April 2020 – September 2021**
Moxie Services   *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   **January 2018 – February 2020**
The Church of Jesus Christ of Latter-day Saints   *Warsaw, Poland*
- Analyzed Statistics and Led Weekly Trainings to Achieve Group Improvement Goals for Entire Mission

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