

Eric Robert Brewer he/him

Salt Lake City, UT

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ML enthusiast with unique software, data science, and human experience seeking new MLE roles.

- **Areas** Machine Learning, Deep Learning, Natural Language Processing, Algorithms
- **AI/ML** PyTorch, TensorFlow, Keras, HuggingFace, scikit-learn, XGBoost
- **Data Science** Jupyter, matplotlib, pandas, NumPy, MLFlow, Weights & Biases
- **Software** AWS stack, git, REST APIs, Database (Cassandra, Kafka, PostgreSQL, Spark)
- **Coding** Python, Java, bash, C, JavaScript, C#, SQL

Work Experience

(6 years total)

Machine Learning Engineer FamilySearch Lehi, UT Nov '19 - Aug '22 (~3 years)

- Feature-engineered, deployed existing similarity classifier, XGBoost, for genealogical records.
- Developed novel deep learning classifier (Transformer) to quantify similarity between records.
- Took ownership of deploying in-house Transformer model via Flask API using AWS stack.
- Developed team's use of Apache Kafka to interface w/ ML models via stream processing.

Software Engineer - iOS/Android Autonet Mobile Santa Rosa, CA Aug '16 - Dec '17 (1½ year)

Software Engineer - Android Gaia Interactive San Jose, CA Feb '16 - Jul '16 (½ year)

Software Engineer - iOS/Android Carmel Software San Rafael, CA Apr '12 - Aug '13 (1½ year)

Education

PhD in Computer Science (3.4 GPA, incomplete)

University of Utah Salt Lake City, UT Aug 2022 - current

- Research involves large language models, reinforcement learning, robotics, optimal control.
- *Rubow, Colin & Tsai, Chia-Hsuan & Brewer, Eric & Mattson, Connor & Brown, Daniel & Zhang, Haohan. (2024). A dataset of paired head and eye movements during visual tasks in virtual environments. Scientific Data. 11. 10.1038/s41597-024-04184-1.*

M.S. in Computer Science (3.8 GPA)

Brigham Young University Provo, UT Sep 2017 - Jun 2020

- Courses included: Fundamentals of ML, NLP, Deep Learning, Big Data Systems, Intro to AI.
- Thesis project detects mature content in fictional novels using a deep learning classifier.

B.S. in Computer Science

Sonoma State University Rohnert Park, CA Sep 2008 - May 2012

Volunteer

Proselyting & Service Mission

Church of Jesus Christ of Latter-day Saints Quezon City, Philippines 2013 - 2015 (2 years)

Proselyting, teaching, and service in Metro Manila area approximately 56 hours per week.

- Assumed leadership roles overseeing up to 26 other volunteers.
- Conducted regular group and one-on-one training which led to greater results for our team.

Timeline

