

Eric Robert Brewer *he/him*

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

(6 years total)

Machine Learning Engineer

FamilySearch Lehi, UT Nov 2019 - Aug 2022 (2 years, 10 months)

- Feature-engineered, deployed existing similarity classifier, XGBoost, for genealogical records.
- Developed novel deep learning classifier (Transformer) to quantify similarity between records.
- Researched and developed use of Apache Kafka (stream processing) to interface w/ ML models.

Software Engineer - iOS/Android

Autonet Mobile Santa Rosa, CA Aug 2016 - Dec 2017 (1 year, 4 months)

Software Engineer - Android

Gaia Interactive San Jose, CA Feb 2016 - Jul 2016 (6 months)

Software Engineer - iOS/Android

Carmel Software San Rafael, CA Apr 2012 - Aug 2013 (1 year, 5 months)

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

- 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

