

Dylan Skinner

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EDUCATION

MS: Computer Science – GPA 4.00

Georgia Institute of Technology

Apr 2027

Atlanta, GA

- Relevant Coursework: Artificial Intelligence, Software Development Process

BS: Applied Mathematics (ACME) – GPA 3.99, Magna Cum Laude

Brigham Young University

Apr 2024

Provo, UT

- Relevant Coursework: Machine Learning, Algorithm Design & Optimization, Modeling Uncertainty, Advanced Deep Learning, Dynamical Systems, Control Theory, Statistical Analysis

EXPERIENCE

Data Scientist

e-TeleQuote Insurance

June 2024-Present

Clearwater, FL

- Improved sales bonus selection by **10%** using Bayesian hierarchical model
- Built automated, cross-department bonuses dashboard for CRO in Excel
- Enhanced churn model accuracy by **2%** (CatBoost, Bayesian hierarchical framework)
- Created custom agent hiring model, projecting **5%** reduction in turnover and **4%** increase in sales
- Performed 2-month statistical analysis of sales software, projecting **16.55%** sales increase

Data Science Intern

Harbor Health

May 2023-Aug 2023

Austin, TX

- Improved model accuracy by **45%** using **128** custom data clusters in AWS Athena/SageMaker
- Utilized LLMs for data pairing to increase algorithm accuracy by **58%** on cross-functional team
- Gained in-depth knowledge of medical codes (HCPCS, DDC, GPI, CPT, ICD-10) and utilized Matplotlib for visualizing complex data sets, facilitating better decision-making

Mathematics Research Assistant

Brigham Young University, Dr. Mark Hughes

April 2021-April 2024

Provo, UT

- **Honors thesis:** Using Deep Learning Techniques to Find the 4D Slice Genus of a Knot ([here](#))
- **Quadrupled** learning speeds and **doubled** accuracy using Proximal Policy Optimization (PPO)
- Presented original research at **4** national math conferences, collaborating with PhD researchers

SKILLS

Technical Skills

- Machine learning, neural networks, hidden Markov models, state-space models, Kalman filter, ARIMA models, sampling (MCMC), mathematical statistics, Bayesian modeling, modeling with differential equations, numerical methods, dynamical systems, optimal control

Programming Languages/Software

- Python (PyTorch, NumPy, Pandas, Matplotlib, Scikit-Learn), R, Tableau, C++, SQL, Unix, Git, Bash, Amazon Web Services (Athena, SageMaker, S3), Google Cloud Platform (GCP), Docker

VOLUNTEER EXPERIENCE

Volunteer Representative

Fresh Start Ventures

April 2021-August 2023

Provo, UT

- Attended and facilitated weekly meetings for groups of 13+ recently released prison inmates
- Facilitated group discussions and learning sessions, promoting engagement and peer support