

Caleb Bradshaw

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EDUCATION

Brigham Young University — Senior Computer Science (*Major*) Mathematics (*Minor*)

September 2019 - December 2025 (Expected)

GPA: 4.0

ACT: 35 (Composite) | GRE: 170 Verbal

EXPERIENCE

Covr — Software Engineer Intern

April 2024 - September 2024

- ❖ Designed, developed, and deployed GoLang microservices from concept to production, streamlining notification management
- ❖ Leveraged k-d trees in Python simulation to model nursing agency market

IDEA Labs, BYU — Research Assistant

January 2024 - Present

RESEARCH

Bradshaw, C., Miller, C., & Warnick, S. (2024). *LLM Generated Distribution-Based Prediction of US Electoral Results, Part I*. arXiv:2411.03486.

- ❖ Introduced a novel approach to using Large Language Models as predictive tools using output token probabilities as distributions

DeBuse, M., Miller, C., Bradshaw, C., & Warnick, S. *Taking the Derivative of a Story: A Novel Approach to Fiction Scene Segmentation*. Accepted for publication in Association for Computational Linguistics.

- ❖ Designed, trained, and deployed a neural network to process embedded text as a signal for processing of story structures

PROJECTS

StyleCanvas — [stylecanvasai.com](#)

- ❖ Architected full-stack platform to host third-party AI models using AWS EC2, Cognito, DynamoDB, and Stripe
- ❖ Created auto-scaling system to optimize model serving cost
- ❖ Implemented auth and subscription management with NestJS

PROGRAMMING LANGUAGES

GoLang

JavaScript/TypeScript

Python

C++

TECHNOLOGIES

Docker and Kubernetes

AWS (EC2, Route 53, Cognito, DynamoDB, S3, SageMaker, SQS)

Backend Frameworks: NestJS, Gin (Go)

Frontend Frameworks: React

PyTorch

CUDA

SKILLS

Bayesian Analysis

Test-Driven Development

Parallel Computing

Machine Learning Model Deployment

Algorithm Design

AWARDS

Full-ride scholarship to BYU

Phi Delta Phi, French Honor Society

LANGUAGES

French (Professional proficiency)

