

# Tyler Christensen

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## Education

### BS, Applied & Computational Mathematics Emphasis

Brigham Young University

April 2024

Provo, Utah

- Data Science and Machine Learning Concentration
- GPA: 3.23
- Member - Society for Industrial and Applied Mathematics
- Academic Scholarship
- Relevant Coursework:
  - Linear and Nonlinear Analysis
  - Computation and Optimization
  - Mathematical Programming
  - Theory of Analysis
  - Multivariable Calculus
  - Statistics

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## Skills

- Proficient in Python, C++, and Unix Shell
- Machine Learning, Neural Networks, Bayesian Modeling, Dynamical Systems,
- Data Structures, Numerical Linear Algebra, QR and Singular Value Decomposition
- Experience with SQL, SSH, Super Computing, Linux Systems, and Computer Repair
- Proficient with Pandas, PySpark, Sci-kit Learn, PyTorch

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## Experience

### Data Science Intern

Applied Invention

May 2022 – Aug 2022

Burbank, CA

- Created a data analytics platform for clients involving ETL tools
- Analyze correlations between Google Trends and relevant market data using Python and SQL
- Developed an algorithm to find over 40 areas similar to clients' existing markets wherein they could start services

### Research Assistant

BYU Mathematics Department

Oct 2021 – Present

Provo, UT

- Furthering psychological research in predicting addictive behavior in humans
- Implementing machine learning pipelines with a set of over 270 features

### Lighting Technician/Designer

BYU College of Fine Arts and Communication

Oct 2018 – Present

Provo, UT

- Supervise as Master Electrician for two dance teams on international tours.
- Maintain, program, and install networks for nine different theater spaces at BYU

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## Relevant Projects

### Department of Defense MURI

Oct 2021 - June 2023

- Lead author on an interdisciplinary research project with team members from multiple universities
- Implemented and optimized machine learning data pipelines in order to predict human behavior using MRI and social network data

### Edinburgh International Fringe Festival

BYU Young Ambassadors

July 2023 - August 2023

Edinburgh, Scotland

- Design, program, and maintenance of a lighting rig for a sold out 2 week show on an international tour