Drake Brown

(385) 900-9369 · brownthesr@gmail.com

EDUCATION

Brigham Young University

Bachelor of Science: Applied Computational
Mathematics, Emphasis in Data Science
Computer Science Minor

expected graduation: Apr 2025
Provo, UT

▪ GPA 3.88

▪ Academic half-tuition scholarship

▪ Course work includes: Calculus 1, Calculus 2,
Linear Algebra, Advanced Topics in Mathematics

RESEARCH EXPERIENCE

**Neural Networks Lab, Applied Mathematics
Dept., Brigham Young University**
Research Assistant

Feb 2022 - Current
Provo, UT

▪ Developed neural networks to process and generate
predictive text (Long Short Term Memory; LSTM)

▪ Used convolutional neural networks (CNN) for
various image identification tasks, utilizing datasets
such as CIFAR-100

▪ Analyzed the robustness of different graph neural
networks (GNN) architectures using adversarial
methods

▪ Current project includes analyzing protein structures
using GNNs in conjunction with self-attention
techniques

WORK EXPERIENCE

Aug 2017 - Mar 2019
Salt Lake City, UT

University of Utah
Computer Programmer

▪ Processed 1,500 corrupted files to restore data accessibility

▪ Analyzed results of studies using Java to produce interpretable findings

BYU Testing Center
Clerk

Oct 2021 - Feb 2022
Provo, UT

▪ Provided tests to students

▪ Addressed difficulties of inaccurate tests or cheating

State of Utah
Respite Worker

Sep 2017-Jul 2019
Riverton, UT

▪ Watched over neurodiverse children while their parents were away

▪ Taught neurodiverse children emotional regulation skills

▪ Trained parents to address unique challenges with a neurodiverse child

VOLUNTEER EXPERIENCE

Aug 2018, Aug 2019
Salt Lake City, UT

University of Utah
Camp Counselor (Continuing Annually)

▪ Oversaw child burn survivors as they learn to navigate life with extensive scarring

▪ Trained the kids how to tell their story and be proud of their scars

▪ Directed different camp-wide learning activities

LEADERSHIP EXPERIENCE

Aeronautics Club Team Leader

Leading a team to design, build, and fly an unmanned aircraft in a flying competition

Mechatronics Club Team Leader

Leading a team of undergraduates to build a functional robot for competition: goals of the device include identifying and sorting balls by color

SKILLS

▪ Conversational Spanish

▪ Coding Languages: Java, Python, C++, JavaScript, HTML

▪ Avid Fantasy Reader

AWARDS

▪ STEM Diploma in Pure Mathematics

▪ Sterling Scholar in Mathematics

▪ Eagle Scout