# KYLE TOLLIVER

## EDUCATION

2017 | 2020

**Bachelor of Science in Software Engineering**
Brigham Young University - Idaho — Rexburg, ID

- Graduated with Tau Beta Pi Honors with 3.6 GPA
- Minor: Computer Engineering and Data Science
- Coursework: Advanced Embedded Systems, Digital System Design, Computer Architecture, Circuit Analysis, Machine Learning, Intermediate Stats, Data Intuition, Data Wrangling, Database Development, Applied Development, System Security, Project Management, Linear Algebra, Discrete Math, Differential Calculus

## EXPERIENCE

2020

**Assistant Project Manager**
RBDC - Research and Business Development Center — Remote

- Used Python to create functions and Machine Learning algorithms
- Developed code in shortest path optimization for warehouse robot
- Lead Scrum meetings and helped programmers develop code

2020

**Research Specialist Intern**
LLNL - Lawrence Livermore National Labs — Remote

- Tested security technologies using binary analysis
- Conducted market research on new security techniques
- Followed Scrum methodology and Kanban (Trello) board

2020

**Student Senior Designer**
NASA - National Aeronautics and Space Administration — Remote

- Developed C interface for the sensors in NASA's future Spacesuit
- Benchmark tested PolarFire microprocessor in C++
- Setup a website using Rmds, CSS and Yaml

## PROJECTS

2020

**Spotify Predictive Analytics**
BYU - Idaho, Computer Science and Engineering — Rexburg, ID

- Used energy, liveliness, length and tempo to predict song popularity
- Created Regression models in R
- Developed Neural Networks and Decision Trees using Python

2020

**COVID-19 Data Consulting**
BYU - Idaho, Computer Science and Engineering — Remote

- Developed a data website using R, Rmds and Yaml
- Explored different datasets to determine viable information
- Visualized the data to make the data easily understood

2020

**Self Driving Car**
BYU - Idaho, Computer Science and Engineering — Rexburg, ID

- Designed and assembled electronic circuits
- Programmed Motor Control on Arduino with Embedded C
- Setup Raspberry Pi for Deep Learning and Computer Vision

## CONTACT INFO


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## SKILLS

Python
C / C++
R / Rmd
Verilog
SQL
HTML/CSS
JavaScript
Java
Tableau
Github