

# KYLE TOLLIVER



## EDUCATION

2017  
|  
2020

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



## EXPERIENCE

2020

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

HTML / CSS

JavaScript

SQL / NoSQL

Java / C#

Tableau

Github