# Gavin Fowler

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## 🎓 Education

**Utah State University**                                      Fall 2016 – Spring 2020
*Bachelor of Computer Science*                                          *Logan, UT*
> 3.41 GPA
> Dean's List recipient Fall 2016, Spring 2018, Fall 2018

## 🥧 Experience

**Space Dynamics Laboratory**                                     Jan. 2019 – Present
*Engineering Assistant*                                                 *Logan, UT*
> Increase search speed by 800% by updating Elasticsearch integration and reducing server overhead
> Work with senior developers to maintain and create features for a web application, using ExtJS and Java
> Help redesign front-end in Vue.js to increase usability and reduce cost of maintenance
> Maintain a Docker environment to decrease environmental testing issues and speed up development
> Network with industry professionals at the Small Satellite Conference to increase awareness of the application

## 🚲 Activities

**HackUSU**                                                              Fall 2019
*Participant*                                                           *Logan, UT*
> Attended workshops and programmed a Slack bot that integrates with the Star Wars API

**The Battalion Drum & Bugle Corps**                                   Summer 2016
*Member*                                                         *Salt Lake City, UT*
> Contributed to a team of 150, for over 400 hours, in seven months to create the show *Run to You*

## ⚗ Projects

**Catalog Web App**
> Implementing a cataloging service using a Flask back end and an Elm front end, with Elasticsearch integration

**Run Tracking App**
> Built a React Native app to track runs using GPS and display the tracked run over top of Google Maps

**Discord Bot**
> Designed a Discord bot to respond to user input as well as play requested songs, similar to WildBot

**LaTeX to HTML**
> Created a chrome extension, using HTML and JavaScript, that accepts LaTeX as input and generates HTML

**Polling Website**
> Developed a website with that gathers real-time data, specifically for classroom use, using NodeJS and MongoDB

## ⚙ Skills

**Programming Languages**  C/C++, Python, Java, JavaScript, Kotlin
**Related Courses**  Computer Security, Data Science, Databases, Algorithms, Data Structures, Operating Systems
**Frameworks**  Flask, Djagno, NodeJS, React Native, ExtJS, Vue.js, Express.js, Socket IO
**Other Skills**  Linux (Ubuntu, Debain, CentOS), Docker, Git, Bash, HTML/CSS, LaTeX, Elasticsearch