

# Devan Kavalchek

**Email:** devan.kavalchek@gmail.com

**Phone:** (440)-773-7269

**Website:** <https://kavalchek.dev>

**GitHub:** <https://github.com/devanturtle7>

## Objective

Seeking a software engineering co-op using strong problem solving and programming skills in Java, Python, Dart, or JavaScript.

**Available May 2021 - December 2021**

## Education

**Rochester Institute of Technology**, Rochester, NY

*Bachelor of Science in Software Engineering* (Second year in a 5 Year Program)

**GPA: 3.37** - Dean's List Spring 2021

**Relevant Courses:** Web Engineering, Software Development & Problem Solving I & II, Personal Software Engineering, Project Based Calculus II, Discrete Math for Computing

## Highlighted Projects

### Spotify Hue - Android Application

- Architected with Java, XML, and AJAX using Android Studio
- Worked with Spotify SDK and Philips Hue API
- Changes the color of users' lights based on the album art of the current song on Spotify

### Corner Clerk - iOS/Android App

- **ClayHack 2020 Winner: Best Project Design**
- Collaborated with a colleague to develop an iOS and Android Application to make grocery shopping much more convenient for college students
- Architected with Flutter and Firebase
- Problem solved bugs in a high stress, time sensitive environment

### Genetic Algorithm - Machine Learning Program

- A machine learning algorithm based on evolution, nature, and survival of the fittest
- Developed with Python and utilized test driven development
- Practiced test driven development to ensure functionality
- Built as a more efficient and practical alternative to brute force algorithms

## Leadership Experiences

### Course Assistant - Software Development & Problem Solving I, Rochester, NY - Present

- Attended classes to assist with in class activities and problem activities
- Graded and provided feedback on over 130 assignments a week
- Provided 2 hours of virtual mentoring to students each week
- Assisted in teaching students how to use GitHub, Python, and test driven development
- Upheld CA responsibilities while maintaining a rigorous academic schedule

### Lifeguard - Cedar Point, Sandusky, OH - 2021

- Awarded "Lifeguard of the Week" out of almost 300 guards
- Certified in Water Rescue, CPR, and First Aid by Ellis & Associates
- Enforced all policies and procedures in the park
- Maintained continuous surveillance of pools and attractions to ensure the safety of guests

### BrickHack7, Rochester, NY - 2021

- Lead a team of 3 in a time-sensitive environment
- Selected as 1 of 75 projects for **Best Usage of Google Cloud**
- Architected a responsive web application using HTML, JavaScript and JQuery
- Utilized the Spotify API and Cloud Firestore to allow users to listen to music together
- Problem solved to work around limitations of the Spotify API while under pressure
- Improved skills in collaboration, leadership, and GitHub

## Programming Languages

Python  
Dart  
Java  
C  
JavaScript  
SQL  
HTML  
CSS

## Operating Systems

Windows  
Mac OSX  
Android

## Frameworks/ Libraries

JQuery  
Flutter  
Firebase  
PyTest  
JUnit

## Tools

Git/GitHub  
Powershell  
Unix Command Line  
VS Code  
Android Studio  
Vim  
PostgreSQL

## Skills

- Proficient in test driven development  
- Detail oriented  
- Excellent collaborative and communication skills  
- Fast learner  
- Experienced in object oriented programming  
- Well-versed in data structures and algorithms  
- Experienced with SDKs and APIs

## Awards

**BrickHack7** - Best Usage of Google Cloud

**ClayHack 2020** - Best Project Design