

Devan Kavalchek

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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 19 credit hour 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 inconveniences in 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