

Devan Kavalchek

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Objective

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

Available May 2022 - January 2023

Education

Rochester Institute of Technology, Rochester, NY

Bachelor of Science in Software Engineering (Second year of a 5 year program)

GPA: 3.38 | **Dean's List** Spring 2021 to Present

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

Highlighted Projects

Full Stack Chat - Web Application

- Used React and Bootstrap to build a responsive web-based messaging app
- Developed a REST API using Flask that communicates with a PostgreSQL database to deliver real time updates to the client
- Utilized test driven development to ensure functionality of the API

Spotify Hue - Android Application

- Developed an Android application that changes the color of the user's lights based on the album art of the current song on Spotify
- Architected with Java and XML using Android Studio
- Utilized the Spotify SDK and Philips Hue API to deliver a more immersive listening experience to the user

Corner Clerk - iOS/Android Application

- **ClayHack 2020 Winner: Best Project Design**
- Collaborated with a colleague to develop an iOS and Android Application that makes grocery shopping more convenient for college students
- Architected with Flutter and Firebase
- Problem solved bugs in a high stress, time sensitive environment
- Went on to build and ship multiple versions to Android users

Leadership Experiences

Course Assistant Rochester, NY - August 2021 to Present

- Assisted in teaching students the fundamentals of programming including data structures, algorithms, object oriented programming and test driven development using Python and Java
- Attended classes to assist with in class activities and problem solving activities
- Graded and provided feedback on over 130 assignments a week
- Provided 2 hours of virtual mentoring to students each week
- Upheld 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
- Maintained continuous surveillance of pools and attractions while enforcing all policies and procedures to ensure the safety of guests

BrickHack7, Rochester, NY - 2021

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

Programming Languages

Python
Dart
Java
JavaScript
SQL
Kotlin
HTML & CSS

Operating Systems

Windows
Mac OSX
Android

Frameworks/ Libraries

React
Flutter
Spark Java
Flask
Firebase
JQuery
PostgreSQL

Tools

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

Skills

- Software development lifecycle
- Agile development
- Test driven development
- Object oriented programming
- Data structures & algorithms
- Collaboration
- Detail oriented

Awards

BrickHack7 - Best Usage of Google Cloud
ClayHack 2020 - Best Project Design
Meet & Hack 2022 - 2nd Place Community Hack