

# Sean Brandon

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Portfolio: <https://sean-pb.github.io/>

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## Education

- ❖ Oregon State University June 2024
  - Computer Science B.S. GPA: 3.81 (Dean's Honor Roll)

## Technical Skills

- ❖ Programming Languages
  - Dart, Kotlin, Swift, Python, Java, C++, C, TypeScript, JavaScript
- ❖ Technologies
  - Flutter, Android, Angular, React, SQLite, Git, Linux, MongoDB, Godot, Maven, Azure DevOps, Spring Boot, OpenCV

## Work Experience

- ❖ General Motors — Software Engineer Intern June 2023 - Sep. 2023
  - Worked directly on the Vision as a Service Platform Team to engineer a dynamically sized grid utilizing **Angular** and **TypeScript**, powered by websockets developed in **Java**, to seamlessly receive and arrange streaming images on a browser-based application. This resulted in streamlined camera setup for launch and deploy team, enhancing operational efficiency.
  - Pioneered an image stitching solution for images in grid format from scratch, integrating **OpenCV's** feature detection and matching algorithms. This resulted in streamlined image consolidation which helps the operator determine where any potential defects might be and reduces the amount of compute hardware needed.
  - Contributed to **bug fixes**, **maintenance**, and **enhancements** across a multi-module **Maven Spring Boot** project.

## Project Experience - All viewable in my portfolio

- ❖ Mobile Application - Movie Catalog
  - Utilized **Flutter** and **Dart** to construct a mobile application allowing a user to catalog movies they've seen or wish to see in dynamic lists. Movie entries are stored using **SQLite**.
- ❖ Mobile Application - Duel
  - Used **Godot** to create multiple mobile applications published on the Google Play Store. The most popular, "Duel", has had over 600 lifetime downloads, and uses an AI controlled non-player opponent.
- ❖ Blackjack Decision App
  - Applied **Agile**, **Test Driven Development** and **Microservice Architecture** to develop software that determines the best decision in Blackjack depending on user input.
- ❖ Full Stack Web Application
  - Deployed an application that was written in **JavaScript** and **CSS** and used **MongoDB**, **Express**, **React**, **Node**, and a **REST API** to generate a single page web app allowing a user to catalog exercises (name, reps, weight etc.)

## Extracurricular Activities

- ❖ Competed on teams in Hackathons: EcoHacks and BeaverHacks (2nd place).
- ❖ Clubs: Oregon State University's Hackathon Club, MiraCosta CC's Computer Science Club.
- ❖ Engaged in JP Morgan Chase's Software Engineering Virtual Experience Program.