Sean Brandon

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

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 to analyze images.
  - ➢ Contributed **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.