

# Kolby Samson

Student at University of Washington-Bothell

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## Education

**University of Washington-Bothell** - B.S. Computer Science & Software Engineering Sep 2019 - Jun 2022

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- 3.89 GPA
- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Scripting Languages, Software Engineering, Information Assurance & Cybersecurity

## Projects

**Skill Bank** - Skill Practice Tracker Sep 2020 - Oct 2020

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- Desktop **Java** Application allowing users to track accumulated skill practice hours
- Designed Java **Swing GUI** to allow users to intuitively view and manage their unique skill banks
- Integrated skill tracking with to-do list functionality to boost user productivity
- Implemented application unit testing using the **JUnit** testing framework

**Raava Discord Bot** - Server Logging Bot Application August 2020

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- **Python** Bot Application connected to servers on the Discord communications platform
- Leveraged the **Discord API** through the discord.py API Wrapper library
- Expanded upon Discord's "Audit Log" feature with additional logging events to support server administrators
- Implemented custom utility commands for server users and administrators to view logs and retrieve server information

**Collectibles Store Simulator** - Store Management Simulation June 2020

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- Command-Line **C++** Application simulating a collectibles store
- Designed customer database, inventory system, and transaction management system using object-oriented design principles
- Integrated the **Factory and Command design patterns** to enable greater program extensibility
- Implemented simulation logic using data structures such as hash tables, binary trees, and arrays

**Image Segmentation Application** - Seed-Based Image Segmentation March 2020

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- Desktop **C++** Application allowing for segmentation of images into distinct color regions
- Leveraged custom image wrapper library to process input images
- Analyzed image pixels recursively to generate distinct color segments
- Implemented linked list data structures to keep track of connected groups of pixels

## Skills

### Programming Languages

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- Java, C++, Python

### Tools & Technologies

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- Git, GitHub, Bash, IntelliJ IDEA, Visual Studio Code