

# Brittney Oeur

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## SKILLS + TOOLS

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**Languages + Skills:** C++, C#, Python, Java, SQL, R, HTML, CSS, JavaScript, Assembly, Git, API

**Operating Systems:** Windows, Unix/Linux, MacOS, iOS

## EDUCATION

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### Bachelor of Arts in Applied Computing

Spring 2022 – June 2024

University of Washington Bothell

- **Minor:** Informatics
- **Related Coursework:** Object-Oriented Programming, Data Structure, and Algorithms, Software Engineering, Hardware and Computer Organization, Foundational Skills for Data Science, and Database Systems

### Associate in Integrated Studies

March 2020 – Winter 2022

Cascadia College

## TECHNICAL PROJECTS

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### DS/3DS Chips Detection, Computer Vision

- Solo school project, developed in C++ focusing on computer vision
- Detected DS/3DS chips from the Animal Crossing series, accurately identifying them in various background objects
- Employed various OpenCV methods, including SIFT/ORB algorithms, template matching, co-occurrence matrix, and color histograms
- Achieved a detection accuracy rate of 100%

### Pac-Man AI Assignment, Search Algorithms and Game Theory

- Two-person collaboration, developed in Python
- Continuous team communication throughout the entire process
- Developed a Pac-Man game, implementing various search algorithms (DFS, BFS, A\* Search) and game theories (Minimax, Expectimax, and Alpha-Beta Pruning)

### WithCare Health Tracking Mobile Application (Prototype), UX Design & Project Management

- Solo capstone project, completed over a 10-week period
- Developed high-fidelity prototype featuring three components: medication management, mental wellbeing, and symptom tracking
- Conducted interviews and usability testing with informal caregivers to inform design decisions and ensure user-centric features
- Focused on comprehensive project management encompassing UX design, user research, and iterative development to create an intuitive mobile application

### Apex Legends Tracker, RShiny Application

- Solo project, developed using R and powered by RShiny framework
- Extracted and processed data for over 200,000 players' information from a publicly available API
- Achieved a response time of at least 2 seconds for player searches
- Featured a dual-tab navigation bar: the first tab enables user search for players, revealing information about their current active legend; the second tab showcasing the player's top three legends' kills via a bar graph

### 2D Platformer Video Game, Video Game Development

- Solo Unity project, developed in C#, involving object-oriented programming
- Scripted player, enemy, picking up coins, entering/exiting levels, and game sessions
- Integrated free game assets: blocks, slime enemies, hazards coins, and background elements

## WORK EXPERIENCE

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### **Digital Illustrator**, Freelance

June 2015 – June 2022

- Utilized Photoshop to draw portraits and designed graphic clothing for a local badminton team

### **Stocker**, American Girl

June 2020 - February 2021

- Collaboratively restocked shelves, organized inventory, and upheld store order
- Unloaded boxes from pallets with a team and carry the load into the back of the store
- Strong communication skills to address customer questions and concerns, ensuring a positive shopping experience