Rio Samson

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Skills

Languages: C, C++, Java, Python, SQL, R
Technical: Git/GitHub, MySQL, Agile Methodologies, Linux, Android Development, VS Code, Figma, Windows

Project Experience

Deny and Conquer - Online Multiplayer Game | *Java, Git, JavaFX, Demo Video* — Jul - Aug 2023
- Crafted an engaging **Java client-server** multiplayer game where players competed by coloring boxes on a grid, establishing a seamless connection and real-time online interaction earning a **100% grade**
- Integrated **frontend** and **backend** components, assuming a pivotal role in GUI construction using **JavaFX and socket programming** for communication of data, decreasing connection delay by **20%**
- Managed a team of **5**, utilizing my excellent **interpersonal communication** and **collaboration skills** resulting in meeting a tight **3-week** deadline

Parenting App | *Android Studio, Java, Git* — Sept - Dec 2021
- Managed a development team of 4 to build an **Android app** for parenting by scheduling regular meetings and establishing expectations, decreasing communication errors by **20%**
- Demonstrated strong **problem-resolution** skills by overcoming language barriers and fostering effective communication within the team, resulting in a **grade increase from 70% to 100%**
- Utilized **Git** as the **Scrum** Master and Product Manager to issue tasks, create branches, and oversee merge requests/conflicts for every iteration, decreasing development schedule delays by **33%**

Consumables Tracker Web Service | *IntelliJ, Java, Spring REST API, Git* — Sept 2021
- Developed a **Java GUI** web client for tracking food/drink expiration for my family by integrating **REST API** for seamless **server-client** data transfer and sync across devices, **eliminating family food waste by 50%**

Cat Companion App - Hackathon | *Python, Microsoft Office, Git* — Feb 2022
- Led a team of 3 in the development of an interactive mental health companion app for the hackathon using **Python**, winning **1st place** and **$100** for **best terminal app**
- Implemented functions for user input and processing of information to deliver helpful responses through a chatbot, increasing range of responses by **33%**

Yelp Database Query App | *MS SQL Server, Python, Pyodbc* — Mar - Apr 2023
- Developed a **Python app** to interact with a Yelp database, implementing diverse database functions with **MS SQL Server queries** and maintaining integrity, resulting in a **100%** evaluation
- Created a hierarchical menu-driven interface that allows users to perform tasks such as logging in, searching businesses/users, making friends, and writing reviews on a database with **350,000+** entries

Work Experience

Event Planner Intern | *Microsoft Office, YouTube* — Summers 2020 - 2023
- Coordinated engaging events and parties resulting in a **15%** increase in weekly youth group attendance
- Efficiently **self-learned** video production within days, successfully shooting, editing, and screening daily camp videos which received **unanimous positive reviews**
- Spearheaded projects, speeding up the timeline by **20%** through effective planning and time management

Education

Simon Fraser University — Sept 2020 - Present
Bachelor of Science in Computer Science — *Current CGPA: 3.49*
Awards: Open Scholarship, Dean's Honour Roll, Hackathon - 1st Place

Relevant Coursework

Courses: Data Communication and Networking, Data Structures and Algorithms, **Database Systems**, Operating Systems, **Software Engineering**, Object Oriented Design, UX Design, Requirements Engineering, Cyber Security