Rajan Sapkota

UBC Science Co-op

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Technical Skills

Languages: C++, C, Python, Java, JavaScript, R, HTML/CSS, Racket, ARM Assembly, SQL
Tools/Environment: Excel, Unix/Linux, Git/GitHub, PowerBI, VS Code, Jenkins, IntelliJ, RStudio, Jupyter Notebook, Node.js
Frameworks/Libraries: React, JUnit5, Unittest, Valgrind, Java Swing, Matplotlib, ChartJS, Vite, Ansible, Docker

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Technical Experience

Data Analyst Intern | Python, Web scraping, REST API   *July - Sept 2022*
Coca Cola Company   *Manila, Philippines*
- Increased customer engagement by **55%** by scraping data from the web using Python Beautiful Soup and Google Search API to identify underrepresented audiences
- Consolidated marketing data by normalising **130,000+ data points** to reduce redundancies and minimise entry errors
- Elevated intra-organization communication by **debriefing** executives about the project via a slide-show presentation

Full-stack Developer | React, PHP, Oracle DBMS, SQL, Data Normalization   *Sept 2023 - Present*
Musicultured - Project
- Engineered a dynamic front-end interface using **React** and **CSS**, enabling users to interact with playlist, songs and friends
- Enabled full-stack performance by pairing **PHP** and **Oracle SQL** database on **API** endpoints, ensuring efficient data retrieval
- Facilitated team collaboration and **CI** by implementing robust version control with **Git** in a 4-member team

Game Developer | Java, JSON, JUnit5, OOP   *Oct - Dec 2022*
WizardsVsZombies - Project
- Reduced **coupling** and increased **cohesion** via utilization of **UML diagrams, inheritance** and design patterns such as **Singleton, Observer and Iterator**
- Implemented 6 user-stories through the **agile scrum development methodology** consisting of 5 two-week sprints
- Ensured test-driven development by deploying **unit and integration testing** across all methods and modules using **JUnit 5**

Python Developer | Python, Data Visualization, Matplotlib, Unittest   *Nov - Dec 2021*
Music Data Visualizer - Project
- Successfully plotted how average popularity of songs given proposed tempos changed throughout time via exploitation of **sorting** and **filtration algorithms**
- Effectively **parsed CSV file** with 8,000+ data points into mutable list of song objects, accounting for null field values
- Applied **unit and integration testing** across visualizer functionalities within various cases via python testing framework **unittest**

Other Experiences

President/Founder, *AMS Volleyball Club at UBC | Vancouver, Canada*   *Dec 2021 - Present*
- Garnered **150+ paid members** within one year of operation by utilizing promotional resources, social media and networks
- Established a **structured organization** by recruiting prospective internal members and discussing organizational logistics
- Hosted paid and unpaid events for **100+ members/non-members** by collaborating with internal and external stakeholders

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Education & Achievement

University of British Columbia   *Sept 2021 - May 2025*
Bachelors of Computer Science and Business
Awards: International Entrance Scholarship and Outstanding International Student Award ($100,000)
Key Courses: Data Structures and Algorithms, Software Construction, Relational Databases, Financial Modeling and Excel