Aryan Roshan

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EDUCATION

University of British Columbia   **Kelowna, BC, Canada**
Bachelor of Applied Science in Computer Engineering   *Expected: April 2027*

- **Expected GPA:** 3.33/4.33 (77-79%)
- **Relevant Coursework:** Engineering Design and Algorithms, Mathematics, Physics, Chemistry

PROFESSIONAL EXPERIENCE

Oasis Infobyte   **New Delhi, India**
Python Developer Intern   *May 2024 – June 2024*

- Developing multiple python applications including a Voice Assistant, BMI Calculator, and Password Generator by utilizing Python libraries for features like speech recognition, GUI development (Tkinter), and data validation.
- Incorporating advanced functionalities such as language processing, data visualization and security features for these python applications to ensure user-friendly software solutions.
- Working with experienced developers in open-source projects, refining code and adhering to practices in version control with GitHub while participating in extensive code reviews and debugging sessions.

UBC Sailbot   **Vancouver, Canada**
Software Engineer   *January 2024 – Present*

- Developed a Python class, FluidGenerator to simulate fluid movements such as wind and current within the boat simulator. This involved implementing a vector generator to enhance the simulation's accuracy.
- Created a comprehensive dataclass within the boat simulator to manage and optimize properties such as sail and rudder lift/drag coefficients, area, distance and drag factor, increasing simulation performance.
- Conducted comprehensive unit testing with Pytest, ensuring stable functionality while collaborating with team members to seamlessly integrate new modules into the physics engine and simulation framework.

Curtin University   **Dubai, United Arab Emirates**
Software Engineer Intern   *July 2022*

- Collaborated with peers on complex coding challenges, applying advanced debugging techniques to maintain high code quality, enhance problem-solving skills, and foster a collaborative learning environment in a team setting.
- Participated in workshops and hands-on sessions to improve my knowledge in the software industry, gaining a solid foundation in front-end and back-end development, preparing for advanced software engineering projects.

PERSONAL PROJECTS

To-Do Application | *Python*   *July 2024*

- Developed a terminal-based to-do application using Python, utilizing data structures to store and manage tasks.
- Implemented robust user input handling and a command-line interface to add, view, and mark tasks as complete, ensuring a seamless and efficient user experience.

WPM Typing Test | *Python*   *March 2024*

- Developed a terminal-based WPM typing test application using the Python curses library for a dynamic interface.
- Implemented real-time feedback and WPM calculation, enhancing skills in Python and terminal-based UI design.

Currency Convertor | *C*   *December 2023*

- Developed a currency converter in C to facilitate the conversion of amounts between global currencies.
- Gained significant proficiency in C language features like structures, arrays, strings, and control flow.

TECHNICAL SKILLS

LANGUAGES/TOOLS/CONCEPTS/FRAMEWORK

- C, Python, Docker, Git, JavaScript, HTML, CSS
- Object-Oriented Programming, Agile Methodology, Microservices Architecture