

Mustapure Mrunal

+1(250)899-7256 | mmrunal@student.ubc.ca | github.com/Moon0256 | www.linkedin.com/in/moonin

Education

University of British Columbia (GPA 9.5/10)

BC, Canada

Bachelor's of Science Major in **Computer Science** | Minor in **Mathematics** | **3rd Year Student**

Sept 2022 – Present

- **Bronze Medalist, ICPC 2024:** Secured 3rd place on-site at the 2024 ICPC Pacific Northwest Regional Contest.
- **MasterCard Scholarship for Women in Computer Science:** Recognized for outstanding academic and leadership potential in Computer Science.
- **Bronze Database Award:** Ranked among the top 10 students for exam performance in COSC 304: Introduction to Databases.
- **Faculty of Science International Student Award:** Honored for exemplary academic standing as an international student and potential for academic and scholarly contribution
- **Dean's List:** Consistently recognized for outstanding academic achievement.
- **2nd place, BC HACKS 4.0 Hackathon** Developed the Finding Nemo app, winning \$1,400 CAD.
- **First-year Mathematics Award:** Awarded for exceptional academic performance in mathematics courses.

Work Experience

Teaching Assistant for COSC 221, MATH 101, MATH 125

BC, Canada

University of British Columbia

Sept 2023 - Current

- Facilitated learning and clarified concepts in COSC 221: Discrete Structures, helping students grasp foundational topics such as logic, set theory, graph theory, and combinatorics.
- Assisted students in programming assignments involving discrete structures, graph theory, and logic-based problem solving, fostering strong technical troubleshooting skills.
- Led interactive lab sessions and tutorials for MATH 101: Integral Calculus and MATH 125: Precalculus, assisting students in problem-solving and application of course material.
- Provided personalized support through office hours and online platforms, addressing diverse learning needs and ensuring course objectives were met.
- Fostered a collaborative and inclusive learning environment, encouraging peer-to-peer learning and active participation across all courses.

Junior Developer | Undergraduate Academic Assistant

BC, Canada

University of British Columbia

Apr 2023 - Aug 2023

- Contributed to the development and expansion of the open problem bank for computer science and physics courses.
- Contributed to auto-grading systems using JSON, employing debugging techniques to ensure optimal functionality.
- Collaborated on Docker containerization to streamline deployment processes in multiple educational environments.
- Collaborated with a 7 person team under the guidance of Dr. Moosvi to adapt an open homework system in multiple courses at UBC Okanagan.
- Implemented auto-grading and automated feedback mechanisms in PrairieLearn to enhance the learning experience for students.
- **Technical Skills:** JSON, Python, NumPy, GitHub, CSS, HTML, Javascript, Docker, Debugging, Jupyter Notebook

Volunteer Experience

Mathematics Representative at QSCU

BC, Canada

University of British Columbia

Sept 2024 - Current

- Conducted review sessions for mathematics courses, helping students strengthen their understanding of complex concepts and improve their academic performance.
- Organized engaging STEM-focused events, including Pi Day, Fibonacho Day, and Lego Day, fostering a sense of community and enthusiasm for quantitative sciences.
- Collaborated with other QSCU representatives to create an inclusive space for STEM students to network, share ideas, and build a supportive academic community.
- Facilitated workshops and informal study groups, enhancing peer learning and promoting collaboration among students from diverse STEM backgrounds.

Head of Operations at The Coding Club

BC, Canada

University of British Columbia

Sept 2023 - Dec 2024

- Led the planning and execution of diverse events, including Competitive Programming Sessions and Software Development Sessions and ensured that the club operations ran smoothly, managing logistics and resources effectively.
- Collaborated with the Coding Club team to ensure seamless operations to provide members with engaging and enriching experiences.
- Cultivated an inclusive environment within the Coding Club, promoting networking and collaborative projects.

Design Manager at the Girls in Tech club

BC, Canada

University of British Columbia

Dec 2022 - Apr 2023

- Demonstrated expertise in graphic design, creating visually appealing posters and posts for Girls in Tech events.
- Contributed to increased inclusivity and engagement by implementing an inclusive design approach, creating materials that resonate with minorities in STEM.
- Integrated feedback from club members to refine and improve design materials, ensuring alignment with club objectives.

Projects

The Treasure Chest: Online Merch Store
University of British Columbia

BC, Canada
Sep 2024 - Dec 2024

- Created an online platform dedicated to uniting movie and video game enthusiasts through a premium selection of officially licensed merchandise, embracing the diversity of fandom culture.
- Designed and developed a full-stack e-commerce website offering apparel, accessories, collectibles, and exclusive limited-edition items inspired by iconic movies and video games.
- Achieved a Database Web Development badge, awarded for one of the top web development projects in COSC 304 with a score exceeding 90%. The team secured 3rd place among 224 students and is featured on the COSC 304 Hall of Fame.
- Integrated web development technologies to build dynamic front-end and back-end components to deliver a user-friendly and dynamic shopping experience
- Technical Skills:** SQL, Java, JSP, HTML, CSS, Docker, UML, DDL, Git

Korse: E-Learning Platform
University of British Columbia

BC, Canada
Jan 2024 - Apr 2024

- Developed an e-learning platform designed using the Scrum methodology as part of the Software Engineering course.
- Implemented a multi-user system with interfaces for students, teachers, and admins, resembling a Canvas and Workday integrated clone.
- Designed a robust backend to manage user data, course content, and administrative functionalities while ensuring seamless interactions between the different user roles.
- The project was ranked among the Top 10 in the class, demonstrating strong team collaboration, effective use of Scrum, and high-quality software engineering practices.
- Technical Skills:** Javascript, HTML, CSS, Python, Scrum, Git

Skills

Programming	Java, Python, C++, JavaScript, HTML/CSS, MIPS Assembly, RStudio, Processing, SQL, Competitive Programming, Algorithm Development, Software Design, Unit Testing, Debugging, Optimization, Database Management
Mathematical Tools	Matlab, Maple, LaTeX, RStudio, Wolfram Alpha, Desmos, Microsoft Excel
Soft Skills	Time Management, Teamwork, Problem-Solving, Communication, Presentation Skills, Collaboration, Adaptability, Resilience, Strategic Planning, Critical Thinking, Leadership, Creativity, Mentorship, Peer Support, Initiative, Community Engagement, Networking

Relevant Courses

Computer Science	Databases, Numerical Optimization, Supervised Machine Learning, Regression, Classification, Analysis of Algorithms, Introduction to Networks, Software Engineering, Data Structures and Algorithms, Computer Programming, Object Oriented Programming, Machine Architecture, Introduction to Discrete Structures, Computer Creativity, Computer Fluency
Mathematics	Abstract Algebra, Real Analysis, Complex Variables and Applications, Mathematical Proof, Calculus III, Matrix Algebra, Integral Calculus, Differential Calculus
Miscellaneous	Applied Statistics, Symbolic Logic, Indigenous Literature, Indigenous Narrative, Sustainability and its relationship to people

Languages

English	Professional proficiency
Hindi	Native proficiency
Marathi	Native proficiency
French	Beginner level proficiency