


# Tanvir Kahlon

2112 Ferndale Rd, Victoria, British Columbia, V8N 2Y7

+1(778) 922-4866

tanvirkahlon91@gmail.com

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## EDUCATION

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- **University of Victoria** Victoria, British Columbia  
• *Bachelor of Software Engineering* September 2021 - Present  
*Currently in 2nd Year*

***Courses:** Operating Systems, Data Structures, Analysis Of Algorithms, Programming Fundamentals, Continuous Time Signals, Networking, Calculus*

## KEY COMPETENCIES AND PERSONAL SKILLS

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- **Languages:** Python, JAVA, C, JavaScript, HTML, LaTeX
- **Softwares:** Excel, SQL, Quickbooks
- **Platforms:** Linux, Web, Windows, Arduino, Git
- **Personal Skills:** Leadership, Imaginative, Attention to Detail, Public Speaking, Time Management, Team Player, Critical Thinker

## TECHNICAL SKILLS

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- **Programming Languages and Operating Systems**
  - Proficiently utilized a diverse set of programming languages, including Python, C, Java, Assembly, JavaScript, and HTML to develop and optimize applications
  - Expertly managed multi-threading and interrupt-driven processes to enhance application performance in a variety of Linux distributions and a Windows distribution.
- **Software Development and Networking**
  - Successfully completed a range of laboratory projects, including the development of a Java-based graphical user interface (GUI) application, creation of an autonomous robotic system using RobotC, and programming LED blinking patterns using STM32 Microcontroller in Arm Assembly.
  - Demonstrated expertise in deploying enterprise-wide computing resources through client/server architecture, with hands-on experience in utilizing HTTP and TCP protocols, effectively resolving networking issues.
- **Technical Writing and Communication**
  - Possess extensive expertise in debugging, testing, and troubleshooting across diverse embedded modules, integrated development environments (IDEs), and testing tools for conducting comprehensive unit tests in laboratory settings.
  - Proficiently crafted a wide range of professional documents, including proposals, progress reports, user manuals, and summaries during technical writing coursework, demonstrating exceptional communication and technical writing skills.

## PROJECTS

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- **E-commerce Site Development with Third-Party APIs**
  - **API Integration:** Seamlessly integrated third-party APIs (payment gateways, shipping services, etc.) to enhance platform functionality.
  - **Efficient Inventory Management:** Developed a robust backend system for real-time inventory management, ensuring accurate product tracking.
  - **Scalable Backend Infrastructure:** Designed a scalable and secure backend infrastructure, optimizing database performance and ensuring reliable service even during peak traffic.
- **Portfolio Website**
  - **Design and Development:** Developed a responsive personal portfolio website using HTML, CSS, and JavaScript, emphasizing user-friendliness and optimal navigation.
  - **Customizable Dark/Light Mode:** Implemented an adjustable dark/light mode feature to enhance user experience and cater to individual preferences.
  - **Regular Maintenance and Interactivity:** Maintained updated content, integrated interactive elements, and followed best web development practices to ensure a dynamic and engaging user interface.
- **Autonomous Ocean Robot Project**
  - **Software Integration:** Led the software development for an autonomous ocean debris removal robot using RobotC language, showcasing technical leadership.
  - **Environmental Commitment:** Demonstrated a strong dedication to addressing environmental challenges through active participation in the project.
  - **Innovative Engineering:** Pioneered innovative engineering solutions within the project, emphasizing a proactive approach to complex challenges in robotics and environmental conservation.

## CONFERENCES AND COMPETITIONS

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- **CELC 2023 Conference Participation:** Attended Canadian Engineering Leadership Conference 2023 by CFES, gaining insights into student leadership, networking, and tech innovation, enhancing leadership skills and industry connections.
- **UVEC 2023 Debate:** Won the UVEC Debate competition by championing ethical sponsorships in engineering schools, demonstrating strong persuasive skills and a commitment to ethical academic practices.

## VOLUNTEER AND CLUB EXPERIENCE

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- **VikeSec Club:** Engaged in the University of Victoria's Cybersecurity club, VikeSec, fostering knowledge sharing and cyber defense awareness..
- **People for Animals, 2022:** Conducted adoption drive for neglected/sheltered dogs, promoting animal welfare and community support.