

# Sachin Bansal

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ACADEMIC PROFILE		
Degree	University	Year
B.Sc. (Computer Science Honors)	<ul style="list-style-type: none"><li>▪ <b>Carleton University, Ottawa, ON</b><ul style="list-style-type: none"><li>- Maintained a Major CGPA of <b>11/12</b>, Major in <b>Computer Science</b> with <b>AI &amp; ML</b> Stream</li><li>- <b>Coursework</b> – Python, Java, C/C++, OOP Principles, Data Structures and Algorithms, DBMS</li></ul></li></ul>	2023 - 25
Computer Systems Technician	<ul style="list-style-type: none"><li>▪ <b>Algonquin College, Ottawa, ON</b><ul style="list-style-type: none"><li>- Graduated with <b>Honors</b> distinction, achieving an overall CGPA of <b>3.74/4.0</b></li><li>- <b>Coursework</b> – <b>CCNA</b> trained, Cloud Computing (<b>Azure</b>), Windows AD, Wireless Networks</li></ul></li></ul>	2018 - 20
AWARDS AND ACHIEVEMENTS		
Academic Achievements	<ul style="list-style-type: none"><li>▪ Excelled in <b>3 courses</b> by obtaining highest grade that includes Python, Java, Data Structure &amp; Algorithms</li><li>▪ Appeared on the Dean’s Honor List <b>Four times</b> and graduated with <b>Honors</b> distinction from Algonquin</li><li>▪ Achieved <b>1<sup>st</sup></b> position in Grade 12 &amp; Grade 10 that is <b>Top 0.14 percentile</b> in among ~ <b>0.31 mn</b> students</li></ul>	2024 2020 2017
Scholarships	<ul style="list-style-type: none"><li>▪ Awarded <b>Donald William Buchanan Scholarship</b> for outstanding High School Merit, valued at <b>\$4,000</b></li><li>▪ Granted <b>J. Lorne Gray In-course Scholarship</b> for consistent academic excellence at Carleton University</li><li>▪ Offered <b>ANTHE</b> scholarship worth <b>\$2000</b> from <b>National Talent Hunt Exam</b> for <b>2</b> consecutive years</li></ul>	2023 2024 2017
WORK EXPERIENCE		
Software Engineering		CIENA
		Jan 2025 – Current
Embedded Systems Design		Microservices Architecture
		Firmware Development
Roles & Responsibilities	<b>Embedded Software Developer Intern, 6500 &amp; RLS Platform Middleware Team</b> <ul style="list-style-type: none"><li>- Developed custom Linux kernel modules to enhance system performance and ensure seamless hardware integration</li><li>- Designed and implemented hardware communication drivers for different ASICs &amp; FPGAs to optimize efficiency</li><li>- Debugged embedded software issues using GDB &amp; developed software APIs, &amp; diagnostics for multicore systems</li></ul>	
Customer’s Application Support		NOKIA
		July 2021 – Jan 2025
Advanced problem resolution		Tools Development
		Accolades from senior leadership
Roles & Responsibilities	<b>IP Tier 3 Technical Support Engineer, NI Services SR TEC Team</b> <ul style="list-style-type: none"><li>- Spearheaded <b>Root Cause Analysis</b> for high impact technical issues, consistently meeting and exceeding the SLAs</li><li>- Collaborated with <b>R&amp;D</b> teams to identify product bugs, reducing issues recurrence by replicating customer issues</li><li>- Developed comprehensive <b>technical documentation</b>, saving troubleshooting time for engineers and technicians</li></ul>	
Initiatives	<ul style="list-style-type: none"><li>▪ Trained number of <b>co-ops</b> effectively, imparting comprehensive overview of troubleshooting &amp; networking concepts</li><li>▪ Implemented strategy to achieve <b>15%</b> cost reduction &amp; increased test efficiency with up-to-date functional resources</li></ul>	
Achievements	<ul style="list-style-type: none"><li>▪ Recognized and awarded <b>Excellence Award</b> for <b>2</b> consecutive years for being productive &amp; outstanding performance</li><li>▪ Passed <b>Six</b> professional exams and earned <b>two</b> certifications (<b>NRS 1 and 2</b>) to enhance skills and professional growth</li><li>▪ Earned <b>fast-track promotion</b> to next salary grade within <b>6 months</b> against the company average of <b>12 to 15 months</b></li></ul>	
TECHNICAL SKILLS		
Skills	<ul style="list-style-type: none"><li>▪ <b>Programming Languages</b> – Python, Java, C/C++, JavaScript, R, SQL(SQLite3), Bash/Shell Scripting</li><li>▪ <b>Developer Tools &amp; Platforms</b> – Git, Docker, VS Code, Jenkins, Bitbucket, OpenGrok, Salesforce, Jira, Linux, RTOS</li><li>▪ <b>Frameworks &amp; Methodologies</b> – Deno, Flask, Node.js, RESTful APIs, Devops, Agile, Microservices Architecture</li><li>▪ <b>Networking &amp; Protocols</b> – TCP/IP, DHCP, BGP, OSPF, DNS, NAT, VPNs, QoS, OTN/WDM testing, SSL/TLS</li></ul>	
PROJECTS, INTERNSHIPS & CERTIFICATIONS		
Reality AI Labs	<ul style="list-style-type: none"><li>▪ <b>Co-op – Software Developer &amp; Generative AI Contributor</b></li></ul>	Jan 25 – Feb 2025
	<ul style="list-style-type: none"><li>- Contributed to refining the full stack architecture for <b>Marvel AI</b>, an innovative AI teaching assistance &amp; career tool</li><li>- Designing user-friendly interfaces with ReactJS, Node.js, Python; managing real time dataflows using <b>Firestore DB</b></li></ul>	
Carleton University	<ul style="list-style-type: none"><li>▪ <b>Course Final Project – Freelancer Management Web Application (<a href="#">Link</a>)</b></li></ul>	Sept 24 – Dec 2024
	<ul style="list-style-type: none"><li>- Developed a web application using Python <b>Flask</b> for interactive functionality &amp; <b>SQLite3</b> for database management</li><li>- Implemented features like adding profiles, projects, skills; with advanced SQL query capabilities for refined searches</li></ul>	
Nokia	<ul style="list-style-type: none"><li>▪ <b>Co-op – Customer Applications Engineer</b></li></ul>	May 19 – Dec 2019
	<ul style="list-style-type: none"><li>- Significantly reduced routine server backup tasks by developing and implementing automation scripts in <b>Python</b></li><li>- Conducted customer network audits and assisted with deployment of LAN switches during Maintenance Window</li></ul>	
Certifications	<ul style="list-style-type: none"><li>▪ <b>Foundational Course – AWS AI Practitioner, Intro to R programming</b></li><li>▪ <b>Certification – Nokia NRS Level 1 and Level 2, Fortinet NSE Level 1 and Level 2</b></li></ul>	2024 2021
POSITION OF RESPONSIBILITY		
Circle K	<ul style="list-style-type: none"><li>▪ <b>Store Manager</b></li></ul>	Apr 20 – Aug 2021
	<ul style="list-style-type: none"><li>- Managed store operations, balancing daily and monthly sales reports, and ordering fuel and other store merchandise</li><li>- Devise new promotional approaches to boost sales and market penetration while driving engagement and growth</li></ul>	
VOLUNTEER		
Paul Menton Centre	<ul style="list-style-type: none"><li>▪ <b>Volunteer Notetaker for Students with Disabilities</b></li></ul>	Sept 24 - Dec 2024
	<ul style="list-style-type: none"><li>- Provided detailed lecture notes to support students with disabilities, enhancing accessibilities and learning outcomes</li><li>- Received a Letter of Appreciation for commitment and eligible for CCR credit, recognizing volunteer contributions</li></ul>	
Nokia	<ul style="list-style-type: none"><li>▪ <b>Member, NextGen Community</b></li></ul>	Dec 22 – Dec 2024
	<ul style="list-style-type: none"><li>- Mentored participants during <b>Technata Hacks 2024</b>, offering insights and advice on sustainability focuses projects</li><li>- Represented Nokia at <b>Algonquin College Career fair</b>, providing guidance and support to students and job seekers</li></ul>	
Canada Learning Code	<ul style="list-style-type: none"><li>▪ <b>Mentor, Volunteer</b></li></ul>	Jan 24 – Dec 2024
	<ul style="list-style-type: none"><li>- Facilitate <b>workshops</b> aimed at teaching technical skills and cultivate curiosity encouraging them to ask questions</li><li>- Events Participation - <b>Teen Hackathon</b>, where I supported and mentored participants throughout the event</li></ul>	
(Canadian Permanent Resident, No Need for Sponsorship, Willing to relocate anywhere within Canada & US)		