

Tanya Rustogi

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PROFESSIONAL SUMMARY

Computer Engineering student with experience building full stack and data-driven applications in enterprise environments. Strong background in Python, JavaScript, APIs, and databases, with hands-on experience automating workflows, integrating business requirements into technical solutions, and supporting production systems. Comfortable collaborating with business stakeholders, testing and validating solutions, and delivering reliable software in fast-paced, regulated environments.

EDUCATION

Sep 2021 - Apr 2026 University of Toronto	Bachelor of Applied Sciences and Engineering (B.A.Sc) in Computer Engineering + PEY (Co-op) - Minor in Artificial Intelligence, Robotics and Mechatronics Certificate in Engineering Business - Relevant Courses: Algorithms and Data Structures , Artificial Intelligence, Databases , Machine Learning, Operating Systems , Computer Networks, Digital Electronics, Computer Organization
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SKILLS

Programming: C, C++, Python, Go, JavaScript, Java, SQL, HTML, CSS, Swift, Verilog, Assembly (ARM)
Frameworks: Docker, OpenShift, Git, JIRA, Jenkins, Node.js, React, PyTorch, MongoDB, Grafana, Unity
Professional: Problem-solving, Collaboration, Curious, Analytical Thinking, Leadership, Communication
Hardware: ESP32, Arduino, FPGA (Verilog), PCB Design (Altium), Autodesk Fusion360, SolidWorks

EMPLOYMENT HISTORY

Sep 2024 – Aug 2025 Royal Bank of Canada, Toronto, ON	Software Developer Co-op - Designed a metrics collection platform integrating real-time data from 3000+ distributed devices. - Automated data ingestion and validation workflows to reduce manual effort and improve reliability. - Developed backend services in Python and Go following object-oriented design principles. - Containerized services using Docker and OpenShift to support consistent deployment and testing. - Collaborated with developer teams and stakeholders to turn evolving requirements to solutions. - Supported system integration, testing, and production troubleshooting through debugging.
Jun 2023 – Aug 2023 University of Toronto, Toronto, ON	Math Mentor, Summer Academy and 3D Modeling Program Facilitator - Taught over 50 first-year students core math concepts and increased course averages by 10–15%. - Facilitated design projects, guiding students through CAD modeling and engineering design processes. - Developed tailored lesson plans using PowerPoint and onShape and guided students' final presentations.

PROJECTS

Present University of Toronto	StockBot – Data-Driven Inventory Monitoring System - Designing and implementing an end-to-end system that automates inventory tracking in real time. - Built backend APIs to process, validate, and store data across application layers. - Debugged integration issues and ensured data accuracy through testing and validation.
August 2025 University of Toronto	AI Recipe Generator App - Developed an application that generates dynamic recipes based on user-input ingredients using AI APIs. - Implemented logic to adjust cooking timings and ingredient quantities based on user-inputs.. - Designed an automated grocery list workflow to track ingredient depletion and add items..
December 2024 University of Toronto	E-commerce and Personal Portfolio Website - Built personal and small-business full-stack websites with JavaScript, React, MongoDB and MySQL. - Debugged frontend and backend issues and optimized performance for smoother user experience. - Integrated third-party APIs (payments, auth) and iterated based on real user needs and client wants.

EXTRA CO-CURRICULAR

Sep 2025 – Present University of Toronto	Vice President, Skule External - Leading initiatives connecting students with external conferences and development opportunities. - Communicating with external teams within other universities to improve Skule's presence. - Attending conferences around Canada representing the University of Toronto and handling delegates.
Jul 2023 – Jan 2024 University of Toronto	Cannonball Webmaster - Designed and maintained a scalable web platform supporting 800+ concurrent users. - Allowed attendees to join seating groups, RSVP bus tickets, enter information, and create accounts. - Collaborated with stakeholders to gather requirements and iterate on features ensuring reliability.