

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

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.