

Aarya Shah

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🌐 aaryashah.me

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EXPERIENCE

University of Toronto Machine Intelligence Student Team... Finance Director

Jul 2025 - Present, Toronto, CA

- Implemented policies to ensure compliance and risk management.
- Oversaw organizational budgeting and financial operations for the university's machine intelligence team, managing funding from university grants, sponsorships, and internal revenue.
- Planned and executed the development of scalable financial infrastructure, including automated tracking systems for expense reporting, budget forecasting, and reimbursements.

University of Toronto..... Undergraduate Researcher

May 2025 - Aug 2025, Toronto, CA

- Led a collaborative research project on photothermal water purification using wood biochar monoliths (WBMs), advancing sustainable, solar-powered water treatment technologies.
- Developed hands-on expertise in experimental design, materials characterization, and data analysis.
- Presented findings at the UNERD Undergraduate Research Conference, honing scientific communication skills, and winning the Best Podium Award in Chemical and Materials Engineering.

University of Toronto Aerospace Team..... Liquid Propulsion Member

Sep 2025 - Present, Toronto, CA

- Conducted material cost optimization and sustainability analyses by evaluating nitrogen-fixing alternatives through simulation-based assessments, adhering to aerospace safety standards.
- Collaborated cross-functionally with avionics and structures to ensure system-level integration of propulsion components.

Conscious JA..... Co Founder and CFO

Sep 2023 - Aug 2024, Toronto, CA

- Budgeted and allocated funds to departments to achieve company goals using Microsoft Office 365.
- Oversaw and delegated the company's financial duties.
- Generated over \$2000 in net profit, establishing a 254% ROI, surpassing our break-even goal by 176 units, and donating 5% profits to Miles Ahead, and formed partnerships with local shops.
- Represented Conscious in award interviews, helping to win Company of the Year, the CSR award and Best Advertisement Awards.

Parks Canada..... Compliance Student

Sep 2023 - Aug 2024, Toronto, CA

- Collected, organized and assessed data to propose advancements
- Collaborated with a team to conduct active foot and vehicle patrols to ensure park safety regulations were followed.
- Developed document writing and incident reporting skills.

SKILLS

Tools: Python, C/C++, HTML, CSS, JavaScript, Linux (Red Hat), Docker, Kubernetes, AutoCAD, Ansys, Matlab, LaTeX, RISC-V Assembly, SystemVerilog, SQL, Cybersecurity, Powershell, UI/UX design

Soft Skills: Leadership, Interviewing, Research, Mathematical Modelling, Interpersonal, Business + Financial Management, Problem Solving

EDUCATION

University of Toronto Toronto, CA
Bachelor of Applied Science + Engineering
- Engineering Science, Minor in Engineering Business

Relevant Courses: Digital and Computer Systems, Deep Learning, Computer Algorithms and Data Structures, ODEs

ACHIEVEMENTS

- French Concours D'art Oratoire
- Principal's Leadership Award
- Academic Achievement Award
- UofT National Book Award
- Accounting Applications and Financial Business Case Study Winner

LANGUAGES

- English (Native)
- Hindi (Native)
- Gujarati (Native)
- French (Professional)

COMMUNITIES

- Engineering Science Ambassadors
- Oshawa Youth Council
- City of Oshawa Event Volunteer
- NSight Mentorship Program
- JA Canada Youth Advisory
- Engineering Science Education Conference