Dylan Ha

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EDUCATION

Toronto Metropolitan University (Ryerson University) — Toronto, ON
Bachelor of Science in Computer Science with Co-op — *Sept. 2021 – June 2026*
- 3.81 CGPA, Dean's List 2021-2023
- Clubs: Metropolitan Data Science Association (Creative Vice President), TMU Esports (Creative Executive)
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Discrete Mathematics

EXPERIENCE

Cloud Software Developer Intern — September 2023 – April 2024
Government of Canada, Canadian Centre for Cyber Security — *Toronto, Ontario*
- Designed and engineered AWS cloud-based telemetry processing solutions, implementing a scalable architecture with **SNS, Lambda,** and **Cloudwatch** in **Python** which resulted in a 20% reduction in processing time.
- Developed 8+ Python functions on an **AWS-based** tech stack to centralize and aggregate log sources, optimizing data retrieval and storage processes with **AWS Config** and **S3**, achieving a 33% increase in log source coverage.
- Implemented **Pytest** scripts and conducted rigorous testing to ensure code functionality and robustness, resulting in a 25% increase in code reliability and a reduction in errors in production environments.

Media Content Specialist — May 2022 – Present
ICUC — *Toronto, Ontario*
- Developed and posted interactive content across 50+ social media channels.
- Oversaw and tracked engagement patterns for 100+ daily interactions.
- Drove a 5% improvement in facilitating escalations between consumers and client relations.
- Collaborated with team members to analyze large sets of consumer data and social media metrics for clients.

Logistics and Administration Staff — June 2020 – Aug. 2020
Royal Canadian Air Cadets — *Trenton, Ontatio*
- Lead a project to streamline intake and exhaust processes for 400+ persons, reducing procedure times by 50%.
- Conducted surveys that gained 100+ engagements to improve the quality of life of the camp.
- Created packages that simplified camp standard operating procedures by 25%.

PROJECTS

Big Bank | *Python, Flask, React, MySQL, JavaScript*
- Developed a full-stack web application using Flask with React as the frontend, using proper SDLC processes.
- Utilized Flask to build ATM classes, emulating banking functions such as Deposits, Withdrawals, and Transfers.
- Developed a secure React frontend connected to an SQL server for user interaction and secure data storage.

War Game | *Elixir, Haskell, Rust*
- Created an automated program for the card game "War" in three different programming languages.
- Implemented recursion functions to iterate through each hand and deck and determine winners on each turn.
- Showcased proficiency in software design and functional paradigm programming.

Personal Website | *HTML, JavaScript, CSS*
- Designed and developed a fully responsive website to showcase personal projects and skills.
- Implemented various interactive features such as hover effects and animations using CSS and JavaScript.

AWARDS

AMD x EngOut Case Competition | *1st Place* — April 2021
- Analyzed data sets from McKinsey & Co to deduce a correlation between employee turnover and diversity.
- Developed a promotion system that allows large companies to increase financial performance by 25%.
- Created a professional slide deck in 24 hours and pitched the design to a panel of judges.

TECHNICAL SKILLS

Languages: Java, Python, C, MySQL, JavaScript, Elixir, Rust
Web Development: React, Flask, HTML, CSS, PHP
Other Tools: AWS, Git, Github, Premiere Pro, Figma, VS Code, Jira, Agile