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 – May 2026*
- 3.83 CGPA, Dean's List 2021-2023
- Clubs: Metropolitan Data Science Association (Vice President), Computer Science Union (Year Rep)
- Relevant Coursework: Data Structures and Algorithms, Software Engineering, Artificial Intelligence

EXPERIENCE

Cloud Software Developer Intern   September 2023 – Present
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 modular Python functions and classes on an **AWS-based** tech stack to centralize logs, optimizing data retrieval and storage with **AWS Config**, **VPC** and **S3**, achieving a 100% increase in log 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 – August 2024
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.

PROJECTS

LeagueOfSpotify | *Python, Flask, Tkinter, Spotify API, Riot API*
- Utilized the Riot and Spotify APIs to synchronize music playback with the player's status in League of Legends.
- Created a Tkinter GUI for authentication and playlist selection, enabling smooth interaction with the Spotify API.
- Implemented a monitoring function that utilizes the Riot API to track player status in League of Legends, automatically playing or pausing music via the Spotify API without interrupting gameplay.

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

Programming Languages: Python, Java, C, Elixir, Rust, MATLAB, SQL
Web Development and Tools: React, Flask, HTML, CSS, PHP, JavaScript, Git, GitHub, AWS, Figma
Data Analysis and Methodologies: Pandas, Tableau, Agile