

Dashiell Rich

hello@dashiellrich.com | linkedin.com/in/dashiell-rich/ | github.com/dashiellmr

EDUCATION

McGill University

May 2025

Bachelor of Science in Computer Science

Montreal, QC

- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Distributed Systems, Computer Networks, Software Design, Software Architecture, Programming Languages, Computational Linguistics, Natural Language Processing, Software Systems, Algorithm Design, Theory of Computation

EXPERIENCE

Verkada

May 2024 – August 2024

Software Engineering Intern

San Mateo, CA

- Built a TypeScript and Vue.js web app to sanitize network packets, safeguarding confidential data for 500+ customers and aiding 100+ support agents.
- Decreased data sanitization time by 93% through algorithm optimizations using regular expressions.
- Created a database for replacement unit requests using Python, AWS SDK, and DynamoDB that prevented repeat requests from arriving at the fulfillment team saving 10+ man hours per month.
- Streamlined deployment pipeline by designing 7 secure Terraform modules and automating over 10+ scripts.

Prometheus Lab, McGill University

May 2023 – August 2023

Undergraduate Researcher

Montreal, QC

- Developed a real-time obstacle detection system for a maze-navigating robot using Python and OpenCV
- Achieved 88% detection accuracy via a convolutional neural network trained with Scikit-learn.
- Improved model performance by 20% through hyperparameter tuning using K-fold cross-validation.

PROJECTS

McRap | Hack McWiCS Hackathon (Awarded 1st Place)

- Created a web app that transforms students' notes into vibrant rap songs to assist with memory retention.
- Integrated JavaScript and Django with LLMs and AI TTS to create fully-voiced songs in under 20 seconds.
- Won Best Overall Hack at Hack McWiCS while competing against over 100 participants.

Threshed | Open-Source Discord Bot

- Developed an open-source Discord bot in Python using Riot Games' API to provide insights on player stats.
- Decreased latency by 17% by creating an intermediary Flask server that batched requests.
- Engineered pipelines to combine data into novel info, including average rankings and common compositions.

EXTRACURRICULARS

Hack4Impact

September 2024 – Present

- Worked in a team of 12 on the Logistics backend for the Welcome Collective, a non-profit assisting refugees by supplying them with furniture, clothing, and food.
- Developed and implemented TypeScript APIs using Express.js, enabling seamless data retrieval from our team's database for sister teams, improving cross-team collaboration and system efficiency
- Utilized PostgreSQL to store task data facilitating pick up and delivery scheduling for 100+ volunteers.

McGill Undergraduate Science Research Journal (MSURJ)

September 2023 – May 2024

- Planned and oversaw a Python workshop teaching students the basics of natural language processing.
- Performed duties such as coordinating with peer reviewers, editing manuscripts, and maintaining journal website.

McGill Formula Electric (FSAE)

October 2021 – October 2023

- Created components using React.js and JavaScript for the team website redesign.
- Conducted material analysis for the aerodynamics team using AutoCAD leading to fin mass dropping by 90%

SKILLS

Languages: Python, TypeScript, JavaScript, Java, Go, SQL, HTML/CSS

Frameworks: Flask, Django, Express, Gin, Vue, React, Tailwind

Databases: MongoDB, MySQL, PostgreSQL, DynamoDB

Tooling & DevOps: Node.js, Terraform, Github Actions, Amazon Web Services, Shell Scripting, Bash, Git, Docker