

Matthew A. MacEachern

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🐙 [GitHub](#)

📍 Toronto, ON, Canada

EDUCATION

B.A.Sc. Computer Engineering | Software Specialization, Queen's University Class of 2024, Kingston, Canada 2020 – Present

- Queen's University Excellence Scholarship (2020), 2x Dean's List Scholar with GPA of 3.43

High School & International Baccalaureate Diploma, Bishop Macdonell High School 2016 – 2020

- **Valedictorian**, Senior Athlete of the Year, 4x Ontario Scholar Award – graduated with overall academic average of 90%
- John Hourigan Award for academic performance, future potential, & community involvement (only recipient out of 100+ students)

Programming Skills

- Python, PyTorch, Scikit-Learn, React, SQL, REST API's, HTML/CSS, AWS Suite, Git, and C/C++

PROFESSIONAL EXPERIENCE

Software Engineer, [Pivotal Life Sciences](#), San Francisco, California (**Remote Consulting Role**) Sept 2023 – Present

- Only intern asked by senior leadership to continue working after my internship. Further developing the investment platform I built. Was given a new contract with an >80% pay raise to perform this work during my senior year of university.

Software Engineer - Internship, [Pivotal Life Sciences](#), San Francisco, California May 2023 – August 2023

- Personally led & executed the development of the application layer for Pivotal's first AI-enabled investment platform. The platform is now a core internal tool used daily by a team of 35+ people to make investments.
- Optimized application layer efficiency with a comprehensive architecture comparison & analysis. Built evaluation matrices from scratch. Deployed architecture that minimized cost and maintained max performance (response latency of < 100ms).
- Developed a robust application layer using a **Python** backend with the **AWS Cloud Development Kit** that utilizes **Lambda**, relational & key-value databases, **Cognito** for authentication, and a **React** frontend utilizing a **REST API** and Material UI.

Artificial Intelligence Engineer, [MoneyLion](#), Kuala Lumpur, Malaysia June 2022 – August 2022

- Developed an **ETL pipeline** for the automation of sanity testing and profiling on MoneyLion's **core AI models**.
- Developed a **Python** program for automatic data extraction and profiling from **S3**, enabling data-driven testing conditions. The data was then integrated with Snowflake, backing marketing funnel KPIs to boost campaign performance.
- Utilized **AWS**, **Docker**, **Kubernetes**, **Codefresh**, **Airflow**, **Snowflake** (SQL), Great Expectations, Git, Jira, and Confluence.

Fellow, [The Cansbridge Fellowship](#), San Francisco, California Jan 2022 – Aug 2022

- Selected as one of 27 students out of 1000+ applicants (~3% acceptance rate) awarded a \$10,000 grant and invited to become a Fellow. Used the grant to pursue an engineering internship in Asia.

Founder, [Indyv.ca](#), [Project Repository](#) Apr 2021 – Present

Indyv.ca lets students convert their PDF resume into a personal website with the click of a button.

- Web platform that takes a student's resume, provides grammar and content checks using generative AI, and automatically generates a custom personal website with their information.
- Conducted 30+ user interviews - found more job applications were asking for personal website links and the majority of applicants did not have one. Users would be willing to pay for a quick and easy solution to getting a personal site.
- Developed pricing model - free for users to build their website and own it for 30 days (i.e. one job application cycle). If users want to extend ownership/access to their personal site, or if they want to make custom updates, they pay a monthly fee.
- Found a creative way to avoid domain fees by launching the sites as custom Github pages.
- Hosted on **Netlify**, featuring a **React** frontend and a **Python** backend with connections to the **OpenAI API (GPT-3.5 Turbo)**.

EXTRACURRICULAR & LEADERSHIP EXPERIENCE

Co-Chair, [Queen's Technology and Media Association](#), Queen's University February 2023 - Present

- Directly manage 50 students and a \$20K budget, directing 4 cross-functional product teams building & launching software.

Software Developer – [Sift](#), [Queen's Technology and Media Association](#), Queen's University September 2021 - March 2023

- Co-Developed a gift recommendation app featuring individual product swiping, profile creation, and live product updates. Built in React with **Flask** and **MongoDB**, deployed on **AWS**.

ADDITIONAL INFORMATION/SKILLS

- District All-Star - Men's Basketball & Volleyball, Team Captain - Men's Basketball & Volleyball, PADI Licensed Scuba Diver