

Matthew Proctor

Software Developer

📍 Toronto, Ontario

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👉 mattwyd.ca

🎓 Education

Bachelor of Computer Science,

Carleton University

09/2018 – 04/2023 | Ottawa, Canada

- Minor in Psychology

💼 Experience

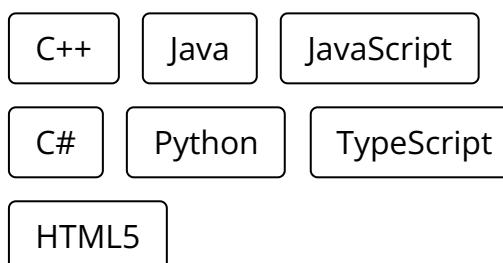
Web Developer,

Telegraph Road Entertainment

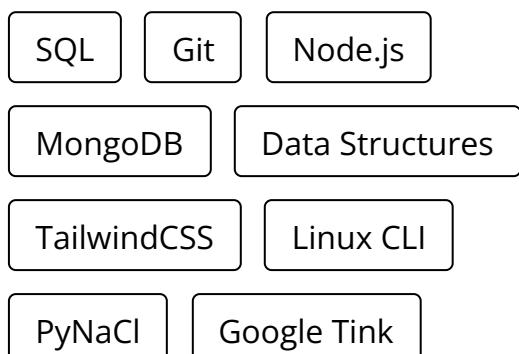
04/2020 – 08/2020 | Toronto, Ontario

- Directed and managed the company's transition and presence on online retailers.
- Developed software to assist in the production of content for puzzle books and children's workbooks using JavaScript.

{ } Languages



🔧 Technologies



📁 Projects

Hew Bot, Discord service written in Python ↗

- Implemented the discord.py **API** to integrate with Discord, an online chat messaging application.
- Utilized **asynchronous** function design to manage large amounts of user requests, returning responses in a quick and timely manner.
- Built functionality to query user chat history and plot information using the **matplotlib** package.

Cryptographic Libraries Analysis,

Implementation and Analysis of PyNaCl and Google Tink Cryptographic Libraries ↗

- Implemented Operations: **Key generation**, encryption, decryption, signature operations, and **MAC operations** using both libraries.
- Evaluation Factors: The project assessed ease of use, security features, and limitations of PyNaCl and Tink, including API design, **key management**, and algorithm choices.

Nourish, Modern website written in JavaScript

- Developed User-friendly web page for a food delivery service with JavaScript and Node.js.
- Implemented **dynamic** loading of restaurant information and menus from multiple restaurants.
- Enabled users to add items to their order; utilized Pug **templates** for increased development efficiency.

Hollow, An ascii based game written in C++ ↗

- Designed and implemented a game environment **simulation**.
- Emphasized hierarchical structures, including **inheritance**, for code modularity, reusability, and scalability.
- Utilized Unified Modeling Language - **UML** diagrams to effectively communicate and **model object structure**, behavior, and interactions, enhancing understanding of the software system.

Mattwyd.ca, Portfolio made with TypeScript ↗

- Built modern portfolio website with **Next.js** featuring projects and contact information. Animated, styled and formatted with **TailwindCSS**.
- Domain registered with Hover and **deployed** with GitHub Pages.