# Matthew Proctor

Software Developer


Toronto, Ontario

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## 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

Python | JavaScript | TypeScript | C++ | C# | Java | HTML5

## Technologies

SQL | Git | Node.js | MongoDB | Data Structures | TailwindCSS | Linux CLI | PyNaCl | Google Tink

## 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*

- 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 website made with TypeScript*

- Built modern portfolio website with Next.js to host resume, featured skills, projects, and contact information.
- Animated and styled using TailwindCSS.
- Deployed with GitHub Pages.