Matthew Proctor

Software Developer

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₽ Education

Bachelor of Computer Science,

Carleton University

09/2018 - 04/2023 | Ottawa, Canada

- Carleton Web Development Club
- · Minor in Psychology

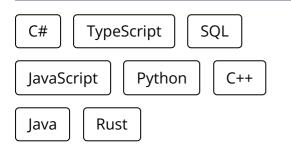
Experience

Software Developer,

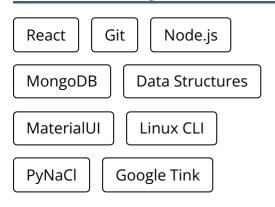
Telegraph Road Entertainment 04/2020 – 08/2020 | Toronto, Ontario

- Significantly contributed to the company's transition and presence on online retailers.
- Developed software in **Python** and **JavaScript** to assist team members in the production of content for products.

{} Languages



Technologies



Vault, a storefront for music productions with made with React

- Developed a dynamic website with audio playback functionality, written in TypeScript for robust typing, and styled using Material UI for a sleek, responsive design.
- Utilized component composition, state lifting, and memoization for an efficient and scalable architecture.
- Hosted the website on AWS, leveraging Amazon S3 for storage, ensuring reliable data management.

SnapAssistant, a versatile Python-based Discord service, managing audio, text, and images

- 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.

KLA Listing Alerts, a marketplace service powered by Node.js and JavaScript

- Offers users a real-time alert system by leveraging an on-prem server using **Apache**.
 Promptly notifying users when a new listing is created that matches their specific requirements, enabling users to stay ahead in their search.
- Implemented security measures including input validation, authentication, and authorization to protect user data and ensure a safe user experience.

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

- Utilized Pug templating engine
- Implemented dynamic loading of restaurant information and menus from multiple restaurants.