

Sheikh Saad Abdullah

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Skills & Interests

Skills: Python, HTML, CSS, Bootstrap, JavaScript, jQuery, ReactJS, NodeJS, ExpressJS, MongoDB, Java, C/C++, Git

Interests: Linux, Open-source, Shell Scripting, Automation, Cloud, Front-end Web Development, Data Analytics

Work Experience

Sensor Technology LTD (COVE)

Dartmouth, Nova Scotia

Research Intern

May 2023 - Aug 2023

- Configured Raspberry Pi SBCs with OpenPlotter Marine OS for the purpose of developing and testing the Acoustic Projector Control and Logging System
- Developed Python script for generation and playback of audio files from given wavelength and duration
- Implemented Python module to connect to private Signal K server and utilize its API to effectively retrieve sensor data
- Created a script for logging data from sensors, consuming it via API calls, and storing it in an SQLite database

Project Experience

yt.py - YouTube Media Player

<https://github.com/cybardev/ytpy>

Software Developer

Feb 2021 - Present

- Translated the open-source shell script "ytfzf" into Python, improving cross-platform compatibility
- Fetches YouTube search results by requesting resources via built-in Python modules, thus avoiding API calls, reducing dependencies, and simplifying end-user experience
- Used a compiled regular expression to efficiently filter and gather media URL strings from raw JSON data retrieved
- Ensured smooth media playback by delegating handling of media data to media player customizable by the user

Cy | Pass - Secure Password Generator

<https://pypi.org/project/cybarpass>

Software Developer

Apr 2022 - Present

- Modularized code by splitting up project into multiple scripts and using proper object-oriented techniques to ensure separation of concerns
- Designed and implemented simple and elegant tkinter GUI and robust CLI for convenience and ease of access
- Packaged and published project to Python Package Index (PyPI), making it easy and convenient for users to install
- Created companion tool [CheckPass](#) to allow users to test the security of generated passphrase

Cy | Search - Search Engine Frontend

<https://search.cybar.dev>

Full-stack Developer

Jan 2022 - Apr 2022

- Designed a search engine frontend that uses NodeJS functions to request and fetch search results from a public API
- Successfully displayed the fetched results in a clear and concise format
- Secured the API key by encrypting it as a repository secret and using code obfuscation techniques
- Implemented progressive web app functionality to allow users to install it as an app

Education

Saint Mary's University

Halifax, Nova Scotia

Bachelor of Science in Computing Science

Expected Graduation Date: Dec 2024

Major Courses: Artificial Intelligence, Data Structures and Algorithms, Software Engineering, Systems Security