

Sheikh Saad Abdullah

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Profile

Adaptable and enthusiastic Computer Science major with expertise in Python, JavaScript, Git, Linux, and various standard tools and technologies. Completed two co-op internships in the software development industry and proactively engaged in creating open-source software projects, showcasing a commitment to continuous learning and creative problem-solving. Highly interested in DevOps and Cloud computing, currently preparing for the AWS Cloud Practitioner certification exam.

Education

Saint Mary's University

Bachelor of Science in Computing Science

Halifax, Nova Scotia

Graduation: Jan 2025

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

Experience

ReelData AI

Junior Software Developer

Halifax, Nova Scotia

Sept 2023 - Dec 2023

- Developed Python module to annotate videos with metadata consumed from Apache Kafka topics using GStreamer pipelines, allowing farm operators to view video stream details via dashboard
- Collaborated with a dynamic remote-first Agile team on ReelAppetite, a flagship product, implementing key features according to client requirements
- Implemented features using test-driven development by creating unit and integration tests to be run in the CI/CD pipeline, validating expected processor workflow
- Augmented stream processor in development to standardize environment variable names to avoid conflicts
- Researched porting Docker container from x86 to ARM (Nvidia Jetson) to run processor locally as edge application

Sensor Technology LTD (COVE)

Research Intern

Dartmouth, Nova Scotia

May 2023 - Aug 2023

- Developed Python script for audio generation, playback, and logging, allowing in-house testing of underwater acoustic projectors
- Configured Raspberry Pi systems with Linux to develop and test the Acoustic Projector Control and Logging System
- Implemented module to connect to private Signal K server and utilize its API to effectively retrieve sensor data
- Created a framework for logging data from sensors, consuming it via API calls, and storing it in an SQLite database

Projects

Resumake (github.com/cybardev/resumake) Programmatic resume generator published to PyPI and DockerHub, built and deployed using GitHub Actions CI/CD workflow for easy installation and usage. [Python, Docker, CI/CD]

CybarPass (github.com/cybardev/CybarPass) Secure passphrase generator with GUI and CLI, published to PyPI. Companion webapp CheckPass can be used to check security of passphrases. [Python, Cybersecurity, GUI Development]

yt.py (github.com/cybardev/ytpy) YouTube media player that uses web scraping techniques to play media from YouTube without the YouTube API. Also translated to Go (github.com/cybardev/ytgo) [Python, Go, Web Scraping, CLI Development]

Skills

Technologies: Python, Go, Docker, Git, NodeJS, ExpressJS, Mongo, MySQL, MS Excel, JavaScript, Java, C#, C/C++

Interests: Linux, Open-source, Shell Scripting, Automation, Cloud, CI/CD, DevOps, Agile Development, Data Analytics