Projects

Chapter Parser

Date: 12/2020-ongoing
Description: Parse custom file with chapter information into `ffmpeg` compatible metadata.
Operating system: cross-platform (Linux, Windows - via `git bash` or WLS)
Language: C++
Technologies: CMake
IDE: CLion
Link: GitHub - Chapter Parser

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update_arch

Date: 12/2020-ongoing
Description: Script for fully automated update process on Arch Linux.
Operating system: Linux (Arch Linux and Arch-based distributions)
Language: Bash
IDE: vim
Link: GitHub - update_arch

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watch_with_mpv

Date: 1/2021
Description: Extension for opening video streams in `mpv` player with enabled hardware acceleration, i.e. GPU decoded video.
Operating system: cross-platform (tested on Chrome extension)
Language: JavaScript
IDE: vim
Technologies: npm
Links:
GitHub - watch_with_mpv
forked from winneon/watch-with-mpv

Benchmarking Linux Kernels

Date: 12/2020-1/2021
Description: Decision support tool for choosing the 'best' kernel.
Operating system: Linux
Language: Bash
Technologies: PCA method
IDE: vim
Link: GitHub - Benchmarking Linux Kernels

Playlist Player

Date: 4/2020-6/2020
Description: Create and play YouTube playlists without creating a channel on YouTube.
Operating system: cross-platform (Linux, Windows - via `git bash` or WLS)
Language: Python
IDE: vim
Link: GitHub - Playlist Player

Employee Management System

Date: 7/2020-8/2020
Description: Playing with C++, smart pointers and move semantics.
Operating system: cross-platform (Linux, Windows - via `git bash` or WLS)
Language: C++, Bash
Technologies: CMake combined with custom build system, Google Test
IDE: Atom
Link: GitHub - Employee Management System

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countdown

Date: 3/2020-4/2020
Description: Timer.
Operating system: Linux
Language: Bash
IDE: vim
Link: GitHub - countdown

Google Test: Example project

Date: 8/2019
Description: Example project with integrated Google Test framework.
Operating system: cross-platform (Linux, Windows)
Language: C++
Technologies: CMake, Google Test
IDE: CLion
Link: GitHub - gtest_example

GCD - Greatest Common Denominator

Date: 4/2019
Description: Utility to compute the greatest common denominator from given numbers.
Operating system: Linux
Language: C++

Technologies: CMake, multithreading, Google Test
IDE: CLion
Link: GitHub - GCD

SDN firewall

Date: 5/2018 - 6/2018
Description: SDN firewall is a service implemented with POX SDN controller. Interaction with the module is provided via Bash script.
Cooperation with: Department of Information Networks, FRI ŽU
Position in team: Developer
Operating system: Linux (Mininet/Ubuntu/Debian)
Language: Python, Bash
IDE: Visual Studio Code
Technologies: Mininet, POX, OpenFlow 1.0
Links:
GitHub - SDN Firewall
GitHub - SDN Firewall - Documentation

Keylogger

Date: 8/2017 - 9/2017
Description: Capture input from a keyboard into a text file.
Operating system: Windows
Language: C
IDE: CodeBlocks
Link: GitHub - Keylogger

Párovačka

Date: Qt: 7/2017 - 8/2017; Python: 7/2018 - 8/2018
Description: A programm that finds couples from a group of people to give each other a gift without reciprocality. First version of the application was written in C++ with Qt. Then it was rewritten into Python with Tkinter.
Operating system: cross-platform (Windows/Linux)
Language (Technologies): C++ (Qt), Python (Tkinter)
IDE: Qt Creator, PyCharm, Visual Studio Code
Links:
GitHub - Párovačka - Qt
GitHub - Párovačka - Python

Arduino UPS

Date: 2/2017 - 7/2017
Description: UPS made of old UPS and Arduino.
Operating system: Embedded (Arduino)

Language: C
IDE: Arduino IDE
Hardware: Arduino UNO, LCD KeyPad Shield
Link: GitHub - Arduino UPS

Pong

Date: 11/2016 - 12/2016
Description: Network multiplayer game.
Operating system: Linux (Arch Linux)
Language: C
Technologies: SDL, sockets
IDE: CodeBlocks
Link: GitHub - Pong

Android application for position tracking of a mobile device

Date: 10/2015 - 8/2016
Description: Application for gathering location information from GPS, Wi-Fi and Bluetooth. Collected data were being sent to the server.
Cooperation with: Departement of Informatics, FRI ŽU
Operating system: Android (4.0+)
Language: Java
Techologies: REST API
IDE: Android Studio
Link: GitHub - PedTrack

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