



Aljaž Francič, PhD

Computer Programmer

Born March 1, 1993



Work experience

Present

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Jan 2024

Software Engineer

openDAQ d.o.o.
Open-source Data Acquisition SDK
by *Dewesoft & HBK*

- Computer programming (C++, Python, Bash)
- Data Acquisition
- Signal Processing

Sep 2022

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Oct 2018

Young Researcher, Teaching Assistant

System Software Laboratory
Faculty of Electrical Engineering and Computer Science
University of Maribor

- Biomedical signal processing with focus on electromyography (MATLAB, R, LaTeX)
- Machine learning (Python, NumPy, Matplotlib, TensorFlow, Keras)
- Computer vision (Python, NumPy, OpenCV)
- *Bibliography (COBISS)*



Education

2023

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2012

University of Maribor

Faculty of Electrical Engineering and Computer Science

- 2023: PhD, Computer Science and Informatics
Software pipeline for computationally efficient and robust estimation of motor unit firing times from high density surface electromyograms
- 2018: Master's degree, Computer Science and Information Technologies
Robot control with a neural network and a muscle-machine interface
- 2015: Erasmus+ student exchange at Tampere University, Finland
- 2015: Bachelor's degree, Computer Science and Information Technologies (UN)
Automatic mouth detection from digital images by using active models

2012

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2008

II. gimnazija Maribor

The National Grammar School Programme

- Zois scholarship recipient



Projects

myo-readings-dataset

Myo armband electromyographic readings dataset for various wrist gestures (Python, NumPy, Matplotlib, TensorFlow, Keras)

stonks-bot

Discord bot that pulls the prices for user-defined coins from CoinGecko for a user-defined number of last days and displays them in a plot in a relative manner (Python, NumPy, Matplotlib, Discord API, AWS)

8d-audio-homebrew

Jupyter notebook that converts a regular wav file into an 8d audio wav file (Python, NumPy, Matplotlib)

sudoku-solver

Computer vision solution that finds a sudoku puzzle in a photo, extracts the puzzle grid, recognizes the numbers in the grid, finds the solution to the puzzle and projects it onto the original photo (Python, OpenCV)



Contact



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Links

github.com/aljazfrancic
linkedin.com/in/aljazfrancic



Skills

- C/C++
- Python
- C#
- Java
- MATLAB
- LaTeX
- R
- Git
- Bash
- Regex
- JavaScript
- HTML
- CSS
- MySQL
- AWS
- Heroku
- Myo
- Oculus
- Kinect
- Adobe Photoshop
- Microsoft Office



Languages

- English (fluent)
- Slovenian (native)



Hobbies

Walking, jogging, swimming,
Magic the Gathering (trading
card game)



Other

Easy-going, creative, I've been
programming since 2009