

# Denys \

Vitali

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## INTRODUCTION

I am a competent IT professional and perfectionist who likes to work with Open Source technologies. I love to solve problems with my expertise and know-how, always putting the maximum effort in what I do. I am always open to learning new things to improve my skill-set.

#### **EXPERIENCE**

Jul 2018 - Dec 2018

## **Software Engineer**

Syndeck

Savosa, Switzerland

Developed a bluetooth gateway application (in Go) that handles the communication with various medical devices. Analyzed and implemented various protocols, first in Python, then in Go. Contributed to the Node.JS / TypeScript codebase and implemented the types for the communication between the platforms with Protobuf.

#### Nov 2014 - Oct 2017

Head of IT Department / Co-Founder

Coelis

Lugano, Switzerland

Started a startup at the age of 18, with the goal of providing engineering solutions to our clients problems.

Project development, server management, website development, logo design, corporate identity creation, infrastructure setup (Git, Jenkins, ownCloud, Docker, Postfix, Dovecot, nginx), CA management, customer support.

#### Nov 2015 - Aug 2016

**Civil Service - Administrative help** 

Fondazione Opera Charitas

📍 Lugano, Switzerland

Administrative work, DocuWare document storing, IT Support, Software Development.

#### Feb 2011 - Feb 2015

#### **Web Developer**

TRUE FLAVA

Turin, Italy (Remote)

Collaboration and code review during the development of websites for many famous artists (Guè Pequeno, Two Fingerz, Danti, Fedez, J-Ax) and italian firms (Zelig, Newtopia, Best Sound, RockTV / HipHopTV). Server management.

Nov 2012 -	Feb 2014	Web Developer  PhoneLocator Pro ↑ Remote
		Development of the web version of PhoneLocator Pro, an Android app that was used to track the device's location.
Dec 2012 -	Nov 2013	Editor  Qlip Magazine P Bellinzona, Switzerland
		Tech related articles, Local events
PERSONAL		
Jun 2015 -	Sep 2015	Private - Information Technology
		Swiss Army Frauenfeld, Switzerland
		Mandatory Military Service
May 2014 -	Dec 2015	Member
·		Associazione Aurora Music Lugano, Switzerland
		Web development, provided help to build the "Love Mobile" for the Zurich's Street Parade
EDUCATION		
2016 -	2019	Bachelor of Science in Computer Engineering
2010	2017	<ul> <li>University Of Applied Sciences of Southern Switzerland (SUPSI)</li> <li>Manno, Switzerland</li> </ul>
		Thesis: Gestione della produzione di prodotti DUPLEX
2011 -	2015	FCP as Multimedia Electronics Technician and FVB
2011	2010	Scuola Arti e Mestieri Trevano    ↑ Trevano, Switzerland
		Federal Certificate of Proficency (FCP) Federal Vocational Baccalaureate (FVB)
PROJECTS		
Aug 2017 -	Today	Linux on Pixel C
Aug 2017 -	Today	Project on GitHub,
		With this ongoing project, we're offering a solution to replace Android and use any GNU/Linux distro on the Google Pixel C, a tablet made by Google powerd by an NVIDIA Tegra X1 SoC. This project

droid and use any GNU/Linux distro on the Google Pixel C, a tablet made by Google powerd by an NVIDIA Tegra X1 SoC. This project also helped / received help from the Reswitched Team for the Green bars issue which subsequently allowed to some users to push the required patches upstream and expand the project to other devices / other projects.

Feb 2019 -Today

## **TSP Cup 2019**



Project on GitHub,

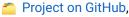


A Travelling Salesman Problem solver, written in Java, using the following algorithms:

- · Simulated Annealing
- · Ant Colony Optimization
- · Genetic Algorithm (w/ EAX)
- Nearest Neighbor
- · Random Nearest Neighbor

Feb 2019 - Today

## **TSP Node Server**







A Go REST server to collect the requests from different TSP Solver Nodes. This project was used as a server to the 30+ clients running a custom-made Alpine Linux distribution that ran my TSP Solver for about 2 days, so that all the results could be collected in a PostgreSQL database.

Jul 2018 - Today

#### DMS.rs







lows its users to upload some PDFs of previously scanned documents, run an OCR and save the resulting text in a DB for further





A Document Management System, written in Rust. This tools al-

Feb 2019 - Today

## paper-fix







indexing. PostgreSQL was used as a backend DB.

An image deskewer, to fix the perspective of scanned documents (e.g. when they're scanned with a mobile phone)

Nov 2018 -May 2018

#### Tuna







A graphics engine and GUI written in C++ with VR capabilities, reflection, Blinn-Phong, LeapMotion integration. Developed during the coruses of Computer Graphics and Virtual Reality at SUPSI.

Oct 2018 - Jan 2019

#### **iFunny**



Project on GitHub,



An interpreter of a custom language (funny) written in Java. Developed during the Compilers and Interpreters course at SUPSI.

Aug 2018 Aug 2018

## go-against-humanity



Project on GitHub,



An interactive, web-based, multi-player, Card Against Humanity game implementation. Written for fun with a friend at End Summer Camp 2018.

Mar 2018 - Today

## **OptiTravel**



Project on GitHub,



A journey planner that uses gtfs-server and TransitLand to find the best route, by using public transportation services. The routing is done on the client side with the A\* algorithm.

This project, developed in Java with JavaFX, was developed during the Software Engineering I course at the University of Applied Sciences of Southern Switzerland during my bachelor, with two other people.

Mar 2018 - Today

## gtfs-server



Project on GitHub,





General Transit Feed Specification (GTFS) REST server, which provides some GIS functionnalities provided by the PostgreSQL backend. This project was developed alongside OptiTravel. This project was developed entirely by myself as an addition to the OptiTravel project.

Dec 2017 - Today

## nginx-error-pages



Project on GitHub,





This project provides some nice-looking error pages for NGINX web server.

Oct 2017 - Jan 2018

## viz-fgk-compressor



Project on GitHub,



An Adaptive Huffman FGK compressor / decompressor, written in C for the course Algorithms and Data Structures at SUPSI.

Mar 2016 - Today

## Sonos-Web



Project on GitHub,







Web Interface for the Sonos Audio System, created with the goal of having a nice looking UI to manage the playing queue, add streaming services like YouTube and Spotify, and allow other developers to customize the UX as they want by making the project expandable through the use of plugins.

May 2016 - Today

## The Best Mother\*\* Website



Project on GitHub, Website





Satire website to joke on the fact that a website doesn't need any framework to look cool.

Jun 2015 - Oct 2016

## nodegram-bot



Project on GitHub, nede



Satire website to joke on the fact that a website doesn't need any framework to look cool.

# LANGUAGES

Italian Native IRL Level 5

English Professional working proficiency / Full professional proficiency

IRL Levels 3 / 4

German Limited working proficiency

IRL Level 2

French Limited working proficiency

IRL Level 2

# **DRIVING LICENSES**

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