

Antonio Vivace

Software developer, Open Source contributor, Computer Science passionate.

github.com/avivace - avivace.com

Education

- 2018-2020**
(Expected) **MSc, Computer Science;** Università di Milano Bicocca
Notable subjects I'm taking: Machine Learning, Concurrent Systems.
- 2014-2017** **BSc, Computer Science;** Università di Milano Bicocca
Notable subjects I've taken: Distributed Systems, Calculus 1, Calculus 2 and Linear Algebra, Computational Biology.
Thesis: Integer Linear Programming approaches on the DNA recombination problem
- 2010-2014** **High School Diploma at Liceo Scientifico;** ITCG A. Mapelli, Monza
Science High School
- 2013** **First Certificate in English**

Experience

- January 2018**
- Present **Software Consultant, Full Stack Developer;** Hawks Holding, Arcore
Maintaining and designing Wordpress websites with commercial themes and additional components. Developing ad-hoc tools to support the businesses of the Holding and showcase them to the public.
- April 2018**
- Present **Technical Leader, Tutor, Thesis Advisor;** Università degli Studi di Milano Bicocca, Milan
Leading the development of additional features for the **CoderBot** project. Tutoring and assisting 6 graduating students (MSc and BSc in Computer Science), each one implementing a new macro feature for the project for their Work/Stage experience and related final thesis (Augmented Reality, Step-by-step debugger, Remote Update system, Emulator, Code Editor).
- October 2017**
- Present **Full Stack Developer, UX Designer;** Università degli Studi di Milano Bicocca, Milan
Scholarship holder. Leading the development of a new software for **CoderBot**, an educative robot used in primary schools to teach coding and algorithmic thinking to children. Documenting the software and hardware architecture, restructuring the existing stack. Raspberry Pi 2, 3.Vue.JS, Vuetify, Axios, Python, Flask, Debian/Raspbian, QEMU.

August 2017 - December 2017	Software Consultant, Full Stack Developer; G4i, Arcore Freelance. Lead the full stack development of a web application: Node, Express, Passport Authentication strategies, Mongoose ORM (Mongo), Bootstrap 4. Consulting and organising developers in other projects. Setting and teaching about new workflows.
September 2014 - Present	IT Technician; IMPRECOM SRL, Monza Freelance. Consulting and Sysadmin tasks: maintaining and configuring computers and the network.
June 2015 - May 2017	Web Manager; SoleLuna Club, Concorezzo Facebook campaigns, graphics and assets, designed a renewed website for the business.

Technical Experience

Notable work	<p>Some of my recent and popular work includes:</p> <ul style="list-style-type: none"> ● fuse - A file upload web service (similar to “We-Transfer”) built ground up with Vue.js, Axios, Bootstrap-Vue, Axios, Webpack, Flask and sqlite3. ● dailyProgrammer - An app for coders, developers or students: daily coding challenges for learning, refreshing or just for fun. 20K total downloads and 7K weekly users on Android Devices and more on the web version. Reddit JSON API, MaterializeCSS, responsive design, web wrapper (with javascript interface) as Android app. ● Homebrew Hub - A showcase/archive of homebrews, patches, hackroms for old consoles. Provides community submission, tagging and rating features. Basically a CMS built ground up using Node, Express and Passport for the backend. Implemented my own authentication strategy, email verification system. Bootstrap 4 for the frontend. MongoDB and Mongoose ORM for the database. ● Freddolo - A random generator of jokes from an huge database. Features user participation. MaterializeCSS for the frontend, SQLite, PHP for the backend. 15K downloads. ● RSS Notifier - Telegram bot for powerful RSS reading. Provides notification on queries-matching elements and supports multiple users. Built on Node, database is SQLite3. ● RadioGit - Telegram bot to broadcast GitHub repository events and activities to private and group chats. Supports user and group preferences. Built on Python 3 with SQLite3 as database, the webhook listener is in Node. ● Ardumonitor - Real time monitoring of a remote Linux machine with Arduino and a LCD display. ● ...
Side Projects	I've worked in a number of side project in which I implemented full stack applications using a lot of different programming languages, frameworks and different technologies, everytime looking for another challenge. I worked alone, in a team, and lead open source projects raised or wanted by the community.

- Open Source** I participate in civic-hacking projects, I love producing quality documentation for the community and everything I worked on is available with an Open Source license.
- Web** I worked and learnt a lot of backend and frontend frameworks, CMS, and various components. I developed entire projects taking care of the full stack, extensively using Wordpress, Node (with Express and Fastify), Bootstrap 3 and 4, MaterializeCSS, MongoDB (and mongoose), MySQL, sqlite and more.
- Languages** In university I had the chance to work on assignments and course projects using Prolog and LISP (Programming Paradigms), Ruby (Computational Biology), R (Statistics) and C (Embedded Systems). Personally I really love Javascript, Node and its community plugin ecosystem.
- Hobbies** Old school hardware/software, photography, typography and electronics.

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Monza, Milan, March 2018

An always updated version of this document is available at www.avivace.com/cv.pdf