

BIOGRAPHICAL SKETCH			
NAME Antonio Trabalza		ACTUAL POSITION Freelance Full Stack developer & consultant	
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QUALIFICATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
Founders & Coders	London Curriculum	2017	Full stack development
Imperial College London	Course	2015	C for Science
NIMR London - MRC	Course	2014	Successful Grant Writing
Imperial College London	License	2010	ASpA Personal License
"Sapienza" University of Rome	PhD	2006-2009	Neuroscience
"Sapienza" University of Rome	BA	1999-2005	General and Experimental Psychology

About

I am a developer with Neuroscience research experience. I am passionate about Science and Technology, and I love the free software world: GNU/Linux OS (Devuan & Void).

I really like designing and working with Blockchain technology and I am fascinated by Artificial Intelligence and Machine learning.

I write mainly Node.js, but I know Go and Java EE (Spring boot). I use React on front-end.

I also love to use Containers and Virtual Machines, and I have fun with circuits and components making IoT and embedded projects (Arduino and Raspberry Pi).

Current Projects:

Since October 2022:

Part-time blockchain consultant and back-end developer at Palmù.

Early stage startup with social relevance and goals (GO back-end + PostgreSQL). Further details cannot be disclosed at the moment (due to Non Disclosure Agreement).

Past Working Experience:

June 2020 to December 2023:

Part-time project manager, blockchain consultant and developer at ASTRA.

Project funded by the Italian Ministry of Development (MiSE) "Fabbrica Intelligente" framework. It is an advanced training system that uses blockchain to certificate accomplishments and qualifications of hazardous environments operators.

Technology stack:

- Express.js back-end
- Custom blockchain implementation as immutable database
- React front-end
- S3 AWS to store off-chain assets.

Companies involved:

- Dimensione Solare (direct employer): Hi-tech hardware and software solutions and products – <https://www.dimensionesolare.it>
- 4DLabs: Immersive simulators, virtual and augmented reality used to train people in hazardous environments – <https://www.4dlabs.it>
- Next2U: Solutions and systems for non-invasive and non-contact monitoring of psychophysiological state – <https://www.next2u-solutions.com>

June 2021 to December 2022:

Back-end developer at Accenture [4 days per week].

The project involved development of new features and maintenance of Accenture's client (CNH) offline catalog and internal back-office tools.

Role and the technology stack:

- Management of Microsoft Azure virtual machines
- Management of Microsoft SQL Server and development of queries and DB synchronization.
- Configuration of local SQLAnywhere SAP DB.
- Development of Windows desktop applications installation scripts.
- Development of PDF creation routines to produce PDF documents for CNH dealers and staff, starting off a huge catalog (DB w/more than 20mln entries) of replacement parts of tractors and excavators.
- Development of Node.js (Express.js) back-end to feed PDF creation front-end.
- Development of background scrips (Node.js daemons) to perform various tasks related to CNH data management and CNH staff tools.
- Supervision of two junior back-end developers.
- Management of interactions with front-end team.

May to September 2020:

Part-time front-end and Node-RED Developer at Officine Innesto – Torino – <https://www.officine.cc>.

Development of "Termo-controllo": Raspberry Pi and Node-RED based temperature scanner device with face recognition and (remote) entrance management.

Node-RED was used to manage the acquisition of a thermal camera and a conventional camera, VUE.js was used for the UI and user interaction.

July 2019 to February 2020:

Full stack developer – Engine S.r.l. – Serre di Rapolano (SI).

Development of cloud system to manage traffic cameras remotely: Celeritas Cloud.

Deployed during 2020/2021.

Used VUE.js for the dashboard, Java EE for the back-end and PostgreSQL as DB.

September 2018 to February 2019:

System admin and developer – Dimensione Solare S.r.l. – Notaresco (TE).

Writing of the ASTRA project. Funded by MiSE.

May to August 2018:

Web developer – Nebulab.it – Pescara.

Development of Ruby on Rails e-commerce solutions.

February 2018 to May 2018:

Web development and Javascript teacher at Turn into Coders – Torino.

Thought seminars on HTML, CSS and plain JS web development.

February 2017 to December 2017:

Web developer Founders & Coders C.I.C. – London – UK.

Stem ambassador web development teacher – London – UK.

From May 2016 to February 2017:

Postdoc Research Associate at Department of Cellular and Molecular Neuroscience, Imperial College Faculty of Medicine – London, funded by BTRC – Brain Tumour Research Committee.

From June 2014 to November 2015:

Postdoc Research Associate at Medical Research Council – Clinical Sciences Centre, Imperial College Hammersmith Hospital Campus – London, funded by MRC core funding.

From May 2010 to March 2014:

Postdoc Research Associate at Department of Cellular and Molecular Neuroscience, Imperial College Faculty of Medicine – London, funded by European Research Council grant – "Improved retrograde lentiviral vectors for gene therapy in motor neuron disease".

Skills

Programming Languages – Github: antoniotrkdz

- Node.js (Express.js).
- SQL.
- Javascript ES6, HTML5 and CSS3.
- React.
- Go.
- Shell (bash) scripting.
- Java EE, Spring (boot).
- C and Arduino prototyping.
- Python and Raspberry Pi prototyping.
- R statistical analysis.
- OpenSCAD (3D object design and printing).
- FIJI/ImageJ2 Macro Language for microscopy image analysis & pattern recognition (see <https://antoniotrkdz.github.io>).

IT/ System Administration

- AWS.
- Gnu/Linux Operating System.
- Shell (bash) scripting.
- (Neo)Vim editor.
- Ubuntu, Debian, Gentoo, Fedora, CentOS and Devuan systems deployment and administration, Desktop and Server.
- VirtualBox and Qemu/KVM virtual machines deployment and administration.
- Docker Containers.
- Good knowledge of computer hardware (building and configuring).
- Good knowledge of Electronics.

Interpersonal, Planning and Problem solving

- Presentation of Research findings in international journals, at conferences and regular Laboratory and Department meetings, both in written and oral forms.
- Managing, planning and reporting of my own work and supervised students.
- Management of internal and external collaborations.
- Design and planning of novel experiments to overcome problems related to PhD and Post Doc research activities.
- Management of Research funds.

Contributions to Open Source Software projects:

- xmonad – a dynamically tiling X11 window manager that is written and configured in Haskell: add a command to open MATE Desktop Environment menu in MATE – xmonad integrations. Xmonad.Config.Mate module – <https://xmonad.github.io/xmonad-docs/xmonad-contrib/XMonad-Config-Mate.html>
- pgcli – a command line interface for Postgres with auto-completion and syntax highlighting: add bash completion to pgcli command invocations. Fixed bug #902121 and Included in Debian (and derivatives) package – <https://github.com/dbcli/pgcli/pull/892/files>
- Devuan Linux distribution – Various documentation and guides translations – <https://www.devuan.org>