

**PERSONAL INFORMATIONS** Alberto G. VALERIO

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Gender Male | Nationality Italian

**About me** Hi, I'm Alberto G. Valerio, a Ph.D. student in **Digital Innovation and e-Health** at the Department of Computer Science, University of Bari "Aldo Moro" (Italy).

I began my academic journey with a Bachelor's degree in **Informatics and Technologies for Software Production**, graduating with honors (110/110 cum laude). I then completed my Master's in **Computer Science** with a focus on **Artificial Intelligence**, also with distinction (110/110 cum laude and special mention). This strong academic background has not only strengthened my technical skills but has also fueled my interest in leveraging cutting-edge technologies, especially in **computer vision** and generative **large language models**.

In my doctoral research, I am exploring the potential of **deep learning** models to enhance medical diagnostics, treatment planning, and patient care within the realms of preventive and precision medicine, as well as neuroimaging. A key focus of my work is on **explainability**, which aims to make AI predictions more transparent and interpretable for healthcare professionals.

Before beginning my journey in research and academia and a new chapter of my life, I spent over 10 years working as a **web software engineer**. This professional background provided me with extensive industry experience in software development as well as practical problem-solving, which now enhances my approach to research and innovation.

**DESIRED OCCUPATION** Junior Researcher - Software Engineer**PROFESSIONAL EXPERIENCE**August 2018 - Today **Web Developer / Web Designer**

I work as FREELANCE for my clients or collaborating with advertising and software development agencies

- Design and development of customized web apps using the LARAVEL framework and the most modern web-oriented technologies (REACTJS, NODEJS, etc.).
- Realization of ecommerce and development of customized modules for MAGENTO® platform.
- Mobile-first design of dynamic, responsive and user-friendly web layouts.
- Optimization for search engines (SEO).
- Processing of vector and photographic images for the web.

**Area** Information Technologies

December 2016 – December 2018 **Frontend Magento® Developer**

FIXIAMOWEB by Lofano Giovanni (Web Agency), Via Oberdan, 50 - 70014 Conversano (BA)

- Design and building of websites with MAGENTO platform.
- Configuration and graphic customization of MAGENTO extension.
- Mobile optimization.
- Customization of responsive templates for eBay stores.
- Logos design and offline graphics (brand identity).

**Area** IT Consulting

**March 2016 – July 2017 Web Designer**

INGRASELL s.r.l. (Advertising Agency), Via Porticella, 12 - 70018 Rutigliano (BA)

- Design and implementation of dynamic and responsive websites through the use of the most common CMSs (WordPress, Prestashop and Magento).
- Optimization for search engines (SEO).
- Graphic elaborations for the print and the web.

Area Advertising Agency

**June – July 2015 Internship (=Web Designer)**

RADIONORBA TELEVISION S.r.l., Via Foggia, 29 - 70014 Conversano (BA)

- Graphic elaborations for the web.
- Video post production.

Area Radio / Television

**September 2011 – October 2014 Web Designer / Account Manager**

DWELLI S.r.l. (www.dwellistore.com), Via Bari, 2 - 70014 Conversano (BA)

- Implementation of the website.
- Creation and publication of original contents on the main marketplace platforms.
- Responsible for online sales (work organization based on urgencies, deadlines, incoming and outgoing orders, accounting and production times).
- Basic accounting (invoices, credit notes, delivery notes, customs documents, etc.).

Area Electronic Commerce

**November 2008 - September 2011 Responsible for managing of the City Hall tax archives**

GESTIONE SERVIZI S.p.a., Piazza XX Settembre, 22 - 70014 Conversano (BA)

- Use of intranet and extranet softwares for data management.

Area Public Administration

**EDUCATION AND TRAINING**

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**October 2022 – July 2024 Master of Science (MCs) in Computer Science - with a specialization in Artificial Intelligence (=degree in English language achieved with full marks 110/110, honors and distinction)**

Master's degree (2 years) obtained at University of Bari "Aldo Moro" in 70124 – Bari

- 1<sup>st</sup> YEAR: Database Systems, Numerical Methods for Computer Science, Formal Methods in Computer Science, Information Theory, Fundamentals of Artificial Intelligence, Machine Learning, Natural Language Processing, Computer Vision.
- 2<sup>nd</sup> YEAR: Big Data, Software Engineering for AI-Enabled Systems, Semantics in Intelligent Information Access, Advanced Scientific English, Deep Learning, Emerging Digital Technologies for Industrial Innovation (Transversal Skills Course), Industrial Education Program and Apprenticeship.
- THESIS: Visual and Textual Explainability in Brain Tumor Detection from MR Imaging.

October 2019 – July 2022 **Bachelor of Science (BCs) in Computer Science and Technologies for Software Production (=degree in Italian language achieved with full marks 110/110 and honors)**

Bachelor's degree (3 years) obtained at University of Bari "Aldo Moro" in 70124 – Bari

- 1<sup>st</sup> YEAR: Computer Architecture and Operating Systems, Discrete mathematics, Programming Fundamentals I, Information Technology Laboratory, Calculus, Programming Languages, English Language.
- 2<sup>nd</sup> YEAR: Programming Fundamentals II, Numerical Methods, Database Design, Computer Networks, Software Engineering, Physics for Computer Science, Statistics for Software Engineering, Business Management and Economy.
- 3<sup>rd</sup> YEAR: Software Quality Methods and Models, Software Systems Integration and Testing, User Interaction Design + Lab, Mobile Software Development, Models and Methods for Application Security, Intelligent Systems for Digital Communication, Industrial Education Program and Apprenticeship.
- THESIS: Machine learning based analysis and techniques for sales forecasting on M5 Walmart dataset.

February – April 2018 **HACK-ADEMY MASTER (=coding bootcamp)**

Certificate of participation obtained at AuLab S.r.l. in 70124 – Bari

- Basic concepts of programming and use of console.
- Web programming: HTML5, CSS3, Javascript, Bootstrap.
- Database, ORM and OOP.
- Web design, User Experience (UX) and User interface (UI).
- Server-side programming in PHP, MVC paradigm, LARAVEL framework and hosting.
- Computer security and shared development tools (git).
- Agile methodologies and SCRUM: work organization framework.

May – September 2017 **Java Developer (=Oracle OCA/OCP training)**

Certificate of participation obtained at Accademia del Levante in 70121 – Bari

- Basic knowledge to support Oracle products and Java development environments.
- Acquisition of the ability to solve problems of medium complexity with the use of the Object Oriented methodology and with Java language.

October 2014 – May 2016 **Technician of the Graphic Representation of Advertising Messages (=certificate of professional qualification acknowledged by the Italian Ministry of Education and the European Community)**

Two-year advanced training course obtained at Media Group Service S.r.l.s. in 70124 - Bari

- Management of operational tools for the treatment of graphic images and for the printing of the product (*Adobe® Creative Suite, Photography, Printing Technology, Layout Techniques*).
- Production and graphic design (*3D Autodesk Maya™, Advertising Planning and Institutional Graphics, Lettering, Web Design, History of Art and Architecture*).
- Study and analysis of the product / service to be represented (*Visual Identity, Communication, Marketing, Psychology of Perception*).

August 2015 **Intensive English Course**

Certificate of Completion obtained at Converse International School of Languages in San Diego, California

April – May 2015 **Adobe® Certified Associate (=ACA)**

International Certifications obtained at Media Group Service S.r.l.s. in 70124 - Bari

- Photoshop CS5
- Dreamweaver CS5
- Flash CS5

June 2008 **European Computer Driving Licence (=ECDL)**

Certificate obtained at Centro Studi Levante in 70121 - Bari

- Essential Modules (*Computer and Online Basics*)
- Advanced Modules (*Word Processing, Spreadsheets, Database, Presentation*)

PERSONAL SKILLS

Native Language Italian

Other Languages	COMPREHENSION		SPOKEN		WRITTEN PRODUCTION
	Listening	Reading	Interaction	Oral Production	
English	B2 (upper intermediate)				

Organizational and Management skills

Excellent ability to analyze reality, schematize it and **implement IT solutions** through the continuous training of computational thinking in the various projects and works, activities I carry out over the years.

Good ability to work in teams acquired through the study of **Agile and Scrum methods** and the participation to *serious gaming* and *team building* sessions and events.

Excellent ability to **organize the work** (my own or of the others) in an autonomous, careful and methodical way, acquired through all the different professional experiences listed above in which I was asked to define priorities and respect, with constancy and precision, deadlines and goals.

Communication skills

Excellent ability to create web layouts and advertising images of great communication impact.

Soft skills

High sense of responsibility and duty, with a critical, constructive and proactive approach towards challenges and changes. Balanced and reflective temperament. Very determined and fair-minded.

IT skills	PROFESSIONAL USE	INTERMEDIATE	SCHOOL LEVEL
Programming Languages	PHP JAVASCRIPT PYTHON	JAVA	C
Markup Languages	HTML CSS MARKDOWN LATEX	XML SASS	
Database	MYSQL MARIA DB MONGO DB	FIREBASE	ORACLE DB CASSANDRA
Architectural Pattern	OOP MVC ORM		
Web Server and Operating System	LINUX (Ubuntu) NODE JS EXPRESS JS	APACHE FLASK VPS (Digitalocean)	WINDOWS NGINX AZURE
Frameworks, Libraries and Tools	LARAVEL REACT JS REDUX JQUERY BOOTSTRAP PYTORCH	GIT/BITBUCKET TORTOISE SVN NPM TENSORFLOW NUMPY/SCIPY PANDAS MATPLOTLIB	MAVEN SONARCLOUD
AI/ML Models	CNN TRANSFORMER	LSTM SVM LLM	ENSEMBLE METHODS
App Development			ANDROID (con Java)
CMS	MAGENTO WORDPRESS	PRESTASHOP	
Graphics Software	PHOTOSHOP ILLUSTRATOR INDESIGN	JUSTINMIND ADOBE XD	FLASH PREMIERE
Text and Code Editors	VISUAL STUDIO SUBLIME TEXT MS OFFICE	NET BEANS DREAMWEAVER ECLIPSE ANDROIDSTUDIO	

**Driver's Licence** Cars (European Union - "B" Category)

**Personal Data** In compliance with the Italian Personal Data Protection Code - Legislative Decree no. 196 of 30 June 2003 and the EU Regulation 2016/679 (GDPR) I authorize the processing of my personal data contained in my CV for the purposes of personnel search and selection.