



## PAOLO ALBORNO

**Nationality:** Italian - **Date of birth:** 10/03/1988 - **Residence :** Bordighera (IT)

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### ABOUT ME

**Senior Software & Data Engineer** with 5+ years in B2B e-commerce software solutions. My focus is on building scalable cloud pipelines to transform raw, high-volume data into insights - using NLP, ML, and LLMs.

As an early employee at fast-growing startup Massive Data Heights, I took on cross-functional responsibilities across engineering, data, and product. This exposure strengthened my adaptability and enabled me to contribute effectively across the entire data stack and product lifecycle.

**Looking ahead:** I am eager to join a mid-to-large company in the Data and AI Engineering domain, where I can expand my expertise and help develop resilient, product-driven, solutions at scale.

### WORK EXPERIENCE

#### 🏢 - MASSIVE DATA HEIGHTS - Headquarter USA, working remotely from Varazze, Italy

B2B Startup - Large scale e-commerce data analytics - Support decision-making by actionable insights

#### SENIOR SOFTWARE, DATA ENGINEER - PARTNER – Feb 2019 - Current

- **Developed a scalable cloud architecture** on **AWS** (EC2, ELB, RDS, Auto Scaling, etc.) to process 1B+ consumer reviews across 15+ product categories
- **Applied NLP techniques** such as clustering, topic extraction (sklearn, BERT), and sentiment analysis, to identify products insights and consumer trends
- **Designed data pipelines** with Apache NiFi integrating Java APIs and Python microservices (Flask, Lambda) and databases
- **Integrated LLM capabilities** (LangGraph, agents, prompt engineering) to enable chat-based data exploration
- **Actively supported management for product development and infrastructure optimization:** helping secure 10+ enterprise clients and reducing AWS operational costs by 30%

**Core technologies:** AWS, NiFi, Java, Python, Angular, MySQL, PostgreSQL, Trello, Jenkins, Git

#### 🏠 - UNIVERSITY OF GENOVA - DIBRIS Department - Casa Paganini - Infomus Lab

PhD research in Human-Computer Interaction – 30+ publications, 300+ citations

#### PHD, POSTDOC FELLOW – Sept 2014 – Feb 2019

- **Developed software modules / apps** to **support research** activities mainly enabling real-time sensors data acquisition
- **Skilled in writing technical reports and deliverables coordination** in EU-funded H2020 research projects, experimental design, academic writing, and peer review
- **Co-organized MOCO 2018** (150+ attendees), **curating the program** and **managing logistics**

**Core Technologies:** Java, Python, C#, C++, EyesWeb, ML applied to signals and time-series

### EDUCATION AND TRAINING – University of Genova

- **PhD in Computer Science and System Engineering** - Sept 2014 – May 2018
- **Master's Degree in Computer Engineering, with honors** - Sep 2011 - Jun 2014

### IT - CERTIFICATIONS

**AWS Certified Solutions Architect (Associate)** | **Professional Scrum Master™ (PSM I)** | **Google PM Certificate V1**

### LANGUAGE SKILLS

**Italian:** Native speaker - **English:** Proficient - FCE, Business English Exam – @University College Cork (Erasmus, 6 months)

### SOFT SKILLS

- Strong problem solver with critical thinking, collaborative team spirit, transparent and assertive communication
- Highly organized, adaptable, and proactive learner (e.g., Scrum, Google PM) with strong accountability
- Former competitive chess player (ELO: 3d National rank, two-times U18-National Championships), bringing strategy and focus