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Software engineer. Master's student in computer engineering.

## Experience

### Backend Engineer

2023-present | Blue Reply IT

- Curating backend information systems-related pipelines and microservices to modernize flows and processes in the banking sector. Additional skills involved are database administration, DevOps, and architecture design.

### Web Development and Data Consultant

2021-present | Freelance

- Worked on several complete digital projects from monitoring platforms, conversational agents, to e-commerce and showcase websites. I managed multiple segments: strategy, development, analysis, reporting, maintenance.

### Research Intern

2022-2023 | Politecnico di Bari

- Managed research activities across machine learning and recommender systems. My main focus was algorithmic fairness, but I also worked with synthetic data generation, causal inference, and reinforcement learning.

## Education

### MSc in Computer Science Engineering

2021-present | Politecnico di Bari | GPA 28.2/30

- Studying AI, machine learning, big data, image processing and artificial vision, IoT, information systems security, distributed systems, human-machine interaction, operations research, and web technologies.

### BSc in Computer Science & Automation Engineering

2018-2021 | Politecnico di Bari | 102/110

- Studied software development, databases, algorithms and data structures, operating systems, telecommunications networks and systems, automatic control systems and electronics.

## Skills

- Python, PHP, JavaScript, Java, HTML, CSS, MATLAB, Bash, LaTeX
- Django, Laravel, Node.js, Express, Next.js, MySQL, Postgres, Firebase, WordPress, Hugo, Git, Docker, PyTorch

## Interests and Projects

Back-end technologies, software architecture, cloud computing, DevOps and MLOps, artificial intelligence and machine learning, NLP, recommender systems, open source, healthcare technologies.

**Joint Fairness-Novelty Optimizer for RecSys.** Optimization-based reranking system for post-processing fairness (producer-calibrated and equality-based) and novelty enhancement in recommender systems.

**Twitter Sentiment Analysis System.** Lexicon-based engine that performs emotion recognition on Twitter data for my BSc thesis. Used Python, Tweepy, NLTK, TextBlob, Plotly, WordCloud.

**Spark E-commerce Segmentation and Prediction Tool.** Co-created an Apache Spark-powered big data platform to analyze e-commerce, segment users based on the RFM matrix and predict customers' next purchases.

## Certifications

### C1 Advanced English Certificate passed with grade A (C2 level)

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