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Work Experience

Reply

FULLSTACK DEVELOPER & AI ENGINEER

Sep 2025 - Present

- Developed enterprise applications for role management systems, implementing filtering mechanisms and data export functionalities
- Resolved critical frontend-backend integration issues, achieving 95%+ task completion rate while maintaining code quality standards
- Debugged and resolved critical issues, implementing fixes for payment processing systems and authentication workflows

Freelance

SOFTWARE DEVELOPER

2019 - Present

- Engineered websites and applications for over 5 private and corporate clients, delivering solutions including landing pages, bots and trackers
- Collaborated with clients to analyze requirements, propose innovative ideas, document solutions and maintain software post-release

Education

Sapienza University of Rome

Rome, IT

BSc in Computer and Automation Engineering

Mar 2024

- Excelled in Operative Systems, Functional Programming, Programming Techniques (4.0 GPA with honors)
- Mastered Data Structures & Algorithms, Software Design, Parallel Computing, Electronics, Web Development (4.0 GPA)

Side Projects

Neural Style Transfer & Genre Classification

GitHub Repo

BSc Graduation Thesis

- Applied Neural Style Transfer and phase reconstruction techniques to spectrograms of audio sources, reducing output noise by 90%
- · Achieved over 90% precision in genre classification using 4 different machine learning models, optimizing via data augmentation

Blocktracr GitHub Repo

FULLSTACK PROJECT

- · Built a fullstack platform to monitor crypto wallets across 100+ exchanges, integrating CCXT API to retrieve user data and coin prices
- · Architected a secure data pipeline, storing user data in Supabase and optimizing security with asymmetric encryption

lorenzopalaia.com GitHub Repo

FULLSTACK PROJECT

- Integrated GitHub API with authenticated requests, implementing server-side caching to reduce API requests by 40% and prevent rate limits
- Delivered **UI** and **UX** by adhering to core frontend principles, following a minimalistic approach and reducing page load time to **0.3 seconds**

Extra Activities

Open Source Contributions

GITHUB

Contributed to 10+ projects, focusing on UI/UX enhancements, feature development, performance optimization and codebase refactoring

Randstad < Code. Your. Future > AI Hackathon

Rome, IT

HACKATHON

- Mar 2023 • Guided the development of a job description classification neural network in a team of 5 using Tensorflow within 4 hours
- · Secured 2nd place, achieving an F1 score of 75%, experimenting with Bag of Words and Word2Vec approaches

Sapienza Flight Team - AUVSI SUAS competition

Rome IT

COMPUTER VISION SOFTWARE ENGINEER

Sep 2021 - Oct 2022

- Collaborated in a subteam of 5 within a 60-member team earning a 15th position out of 71 entries for the Technical Design Paper
- Developed object detection and terrain mapping systems for a UAV, training YOLOv5/EfficientNet models with custom datasets
- Designed and implemented communication protocols between UAV and Ground Station from scratch, developing a Flask-based API

Skills

Programming Languages

Python, TensorFlow, Keras, C, Java, HTML, CSS, Typescript, React, Next.js, Tailwind, Vue, Angular, Node.js, PostgreSQL, Docker Italian, English