

Matteo Pellegrino

Software Engineer

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 mttpll

 arabello



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WORK EXPERIENCE

Full-stack Engineer, Buildo

Milan, Mar 2021 - Present

- Designed and implemented a **GenAI platform** used by hundreds of financial managers to consult AI-generated investment fund reports based on structured and un-structured data.
- Designed and built a data-intensive web applicationx for Excel files processing. Implemented **high-performance React** components, reducing user interaction wait times by approximately 40%.
- Created an **AI-powered Conversational Intelligence feature** enabling end-users to enhance their sales calls (case study ).
- Led the adoption of **AI tools (ChatGPT, GitHub Copilot, Midjourney)** across the company. Directed ongoing experiments to improve internal processes using AI tools, successfully enhancing the delivery workflows for 2 cross-functional teams.
- Leading a monthly video-based AI awareness agenda to popularize AI through the company's public channels.
- Integrated an Identity and Access Management (IAM) federation using **Azure Active Directory B2C** and **OpenID Connect (OIDC)** for a **Kubernetes-based** multi-tenant cloud development platform, enabling secure authentication for 4 development teams.
- Built a Know Your Customer (KYC) service in **Go** and its **TypeScript SDK** for an identity stack startup, streamlining developers to create customized flows with 2+ Identity Providers (IdP).
- Diagnosed and resolved bugs in a newly created large bank Typescript/React app as part of an international team of 20-25 members, optimizing multi-devices user flows.
- Maintained an **open-source React** type-safe form management library 

Machine Learning & Computer Vision Research Intern, Datalogic

California USA, Jan 2020 - Jul 2020

- Engineered a synthetic image generation and augmentation tool based on **OpenCV** library to create 3+ artificial datasets.
- Developed a **Python SDK** enabling a team of 4+ researchers to manage artificial datasets locally via a containerized deployment.
- Conducted image-based **Machine Learning (ML) experiments** to identify and validate tailored image recognition solutions for business needs.

EDUCATION

Master of Computer Engineering University of Bologna

Bologna, 2018 - 2021

Specialized in Artificial Intelligence, Cloud Infrastructures and Distributed Systems. Graduated with top grades and honors.

- Achieved first place in the university startup incubator program with an Android-based project .

Bachelor of Computer Engineering, University of Bologna

Bologna, 2015 - 2018

Specialized in Web Technologies and Distributed Systems.

PROJECTS

Text-Expander Packages Web Hub

 espanso/hub-frontend

- Designed and implemented the official Espanso Hub frontend, improving package discovery and installation experience, resulting in hundreds of weekly users.
- Established and managed a Discord community for Espanso, growing membership to several hundreds.
- Provided consultancy on high-level community decisions, technical improvements and resolving bugs.

Personalized Auditory Experience Web Application

 arabello/night-focus

- Developed a web app enabling customizable auditory experiences to enhance work focus.
- Captured and post-processed ambient sounds with Ableton Live to be integrated into the web application.

SKILLS

Programming Languages	TypeScript, Python, JavaScript, Scala, Go
Relevant Frameworks & Libs	React, Next.js, Pandas, numpy, ZIO, Cats, Slick, Flyway
AI	LLM Integration, LLM as a judge, Dev assistant
DevOps	Github Actions, Kubernetes, Terraform, Azure Pipelines and B2C, AWS EC2 and S3
Databases	PostgreSQL, MongoDB, Snowflake
Misc	Functional Programming, Design System, git, OpenAPI, LaTeX, Ableton Live