

# Matteo Pellegrino

## Product-minded Full Stack Engineer

 matteopellegrino.dev


 mttpll

 arabello

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## PROFESSIONAL SUMMARY

Nearly 5 years of experience in building end-to-end web applications for scale ups and large enterprises R&D departments. Recently focusing on Generative AI products and features. Involved in all stages of the software development lifecycle, from requirements gathering to deployment. Strictly collaborate with designers and stakeholders to ensure alignment with business goals. Internal owner of AI-assisted tools and workflows. Responsible for a public-facing AI news video agenda  for marketing purposes.

## WORK EXPERIENCE

### Full-stack Engineer, Buildo

Milan, Mar 2021 - Present

- Led a **Generative AI (GenAI) reporting platform** serving hundreds of financial managers, automating fund report generation end-to-end. Built data pipelines, a full-stack web application with React and TypeScript, and a conversational **Artificial Intelligence (AI) assistant** using Large Language Models (LLM); created an **evaluation harness** to ensure output quality and reduce manual corrections. .
- Shipped a **conversational intelligence feature** enabling sales teams to enhance call preparation and post-call summarization, improving handoff quality and reducing rep onboarding friction.
- Standardized **AI-assisted development workflows** (context engineering, coding agents, spec-driven development) across company squads, improving delivery velocity and code quality through experimentation and team training.
- Built a data-intensive **Excel processing application** with optimized React rendering; reduced user interaction latency by nearly 40% through profiling-driven performance improvements.
- Integrated **Identity and Access Management (IAM) federation** with Azure Active Directory B2C (Azure AD B2C) and OpenID Connect (OIDC) for a Kubernetes-based multi-tenant platform, enabling Single Sign-On (SSO) for 4 development teams and streamlining secure authentication.
- Developed a **Know Your Customer (KYC) service in Go** with a TypeScript SDK and REST APIs for an identity startup, reducing partner integration time by enabling developers to build customized flows with multiple identity providers.
- Maintained the open-source **React forms library formo**, contributing type-safety improvements and community support .

### Machine Learning & Computer Vision Research Intern, Datalogic

California USA, Jan 2020 - Jul 2020

- Built a **Python SDK** and synthetic image generation tool enabling a team of 4+ researchers to create and manage artificial datasets locally via Docker containerized deployment, accelerating Machine Learning (ML) experimentation cycles through agile development.
- Conducted image recognition **Machine Learning (ML) experiments** using OpenCV-based augmentation pipelines and Computer Vision techniques to validate solutions for business use cases.


## PROJECTS

### Text-Expander Packages Web Hub

 espanso/hub-frontend

- Designed and implemented the official Espanso Hub frontend, improving package discovery and installation experience; serves ~500 weekly visitors.
- Established and grew a Discord community to several hundred members, providing consultancy on community strategy, technical improvements, and issue resolution.

### Personalized Auditory Experience Web Application

 arabello/night-focus

- Developed a web app for customizable auditory experiences to enhance work focus, integrating post-processed ambient sounds captured and edited with Ableton Live.

## TECHNICAL SKILLS

- **Languages & Frameworks:** TypeScript, JavaScript, React, Node.js, Python, Scala, Go
- **Artificial Intelligence & Machine Learning:** Large Language Models (LLM), Generative AI (GenAI), Conversational AI, LLM integration, Evaluation-driven development, Prompt engineering, AI-assisted development
- **Cloud & Platform:** Kubernetes, Docker, GitHub Actions, Azure Pipelines, Azure Active Directory B2C (Azure AD B2C), OpenID Connect (OIDC), CI/CD pipelines
- **Data & Databases:** PostgreSQL, Snowflake, Pandas, SQL
- **Product & Delivery:** Stakeholder collaboration, UX optimization, Agile development, Cross-functional collaboration, Product delivery

## EDUCATION

### Master of Computer Engineering, University of Bologna

2018 - 2021

Specialized in Artificial Intelligence (AI), Machine Learning (ML), Cloud Infrastructures, and Distributed Systems. Graduated with honors (110/110 cum laude).

- Won first place in university startup incubator  with an Android-based project .

### Bachelor of Computer Engineering, University of Bologna

2015 - 2018