CURRICULUM VITAE · SOFTWARE ENGINEER · MANAGER · AGENTIC AI

Cristiano Cavo

Manager at PricewaterhouseCoopers, chartered information engineer. Polyglot backend-oriented across Python, Java, TypeScript and Kotlin, with Go, Rust, Elixir and ADA under active study. Focused on AI engineering, meaning RAG, MCP and agentic systems, and on extensible software architectures in production.

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POSITIONING

Two columns: what I bring to the table and what I am looking for. No beating around the bush.

What I offer, what I seek.

> Frontier AI engineering: RAG, MCP, multi-agent systems and OKF knowledge graphs, in production.

> Extensible architectures: plugin systems, spec-driven development, automated quality gates, living documentation.

> Six years of high-stakes enterprise delivery, including systems serving 300k+ daily logins.

> End-to-end solution architecture, from design to client, political groundwork included.

> Frontier roles in agentic AI, where the state of the art gets built rather than chased.

> High-stakes domains: dual-use aerospace and defence, government, fintech, critical infrastructure.

> Engineering that meets strategy, because today's choices draw tomorrow's balance of power.

> Small strong teams, with autonomy, real ownership and high standards.

PROFESSIONAL PATH

Seven years, one single direction: products that work in production.

Experience, in reverse chronological order.

Oct 2025, present
Milano

Manager , PricewaterhouseCoopers

Technical lead on agentic AI initiatives for enterprise clients, and on the frontier practice around applied GenAI: RAG, MCP, agent orchestration.

Feb 2022, Oct 2025
Milano

Senior Associate , PricewaterhouseCoopers

Digitalisation of financial instruments for banks and governments, for a banking-sector technology consortium. Platform design from scratch, solution architecture, stakeholder management, Corda R3 v4 and v5 development in Kotlin and Python. From 2024, dedicated focus on prompt engineering and the GenAI practice.

Dec 2019, Feb 2022
Milano

Associate , PricewaterhouseCoopers

Identity and Access Management for the workforce of a Tier 1 European bank, owning the platform end to end across web, mobile, servers and release pipeline. Over 300,000 daily logins in stable production. In parallel, blockchain timestamping for fashion, automotive and marine clients.

Oct 2019, Nov 2019
Torino

Researcher , LINK Foundation

Applied research.

Aug 2019, Sep 2019
Torino

Software Developer , InteK AI

C# library bridging the NEO blockchain to the Cypriot electoral systems.

Apr 2018, Jun 2019
Torino

Research grant , Politecnico di Torino

Master thesis with General Motors: connected manufacturing on blockchain, across IoT, 3D printing and Ethereum.

Apr 2018, Sep 2018
Torino

Software Developer , CSP

PHP and Unity 3D, with a C# and WPF launcher, for the T.R.E.E. hospital project.

FOCUS 2024-2026

Where I have been investing time, attention and code for two years.

Agentic AI
as a daily practice.

The company I work at is investing significant resources in this vertical, and our team is among the first in Italy on the topic. We apply it every day, following the ecosystem's weekly evolution across Anthropic, OpenAI, the MCP standard and the orchestration frameworks.

This is not a side interest, it is my current craft. I build multi-agent systems in production, define LLM-queryable knowledge bases, design skills and tooling for autonomous agents, and integrate RAG on enterprise corpora.

01 / ARCHITECTURES

Ingestion pipelines, chunking, hybrid retrieval across semantic and lexical, grounding, citation tracking.

02 / PROTOCOLS

Exposing corporate tools and resources to agents through the Model Context Protocol.

03 / ORCHESTRATION

Planning, execution and evaluation loops. Multi-step workflows with human-in-the-loop.

04 / KNOWLEDGE

Graph engineering and the Zettelkasten method for OKF knowledge bases, agent-queryable.

SELECTED PROJECTS

A selection of what can be disclosed. Many projects are under NDA.

Projects in production and applied research.

PROJ / 01

Financial instruments digitalisation, banking R&D consortium

PricewaterhouseCoopers · 2022, oggi

- Technology innovation consortium for the banking sector, serving banks and governmental institutions, under NDA
- Architectural and applicative design of the platform from scratch
- Blockchain, cybersecurity, fullstack, digitalised salary-backed loans
- Role: solution architect, stakeholder management, political liaison between parties

PROJ / 02

Notarisation services

PricewaterhouseCoopers · 2022, oggi

- Blockchain-based timestamping
- Clients in fashion, automotive and nautical
- Fullstack technology, as developer and maintainer
- Long-term project, multi-tenant

PROJ / 03

Identity and Access Management, Tier 1 EU bank

PricewaterhouseCoopers · 2019, oggi

- One of the largest Italian and European banks, under NDA
- Employee access management, over 300,000 accesses a day in stable production
- Fullstack platform: web, server, mobile across iOS, Android, Huawei and WP, DevOps
- End-to-end cybersecurity, operator monitoring, blockchain

PROJ / 04

Elections in Cyprus on the NEO blockchain

InteK AI · 2019

- Governmental project
- DLL library in C# and .NET
- Bridge between the NEO blockchain and the electronic electoral systems

PROJ / 05

T.R.E.E., hospital touchwall games

CSP · 2018

- Touchwall games for rehabilitation, in Unity 3D
- Launcher in C# and WPF
- Software architecture and data-exchange protocol design

PROJ / 06

LAN data sharing application

Politecnico di Torino · 2016, 2017

- Client-server desktop application in C# and .NET with WPF
- Configurable TCP and UDP protocol, packet transmission optimisation
- High-performance predictive progress bars
- XML marshalling and concurrency handling

PROJ / 07

Connected manufacturing on blockchain

Politecnico di Torino, General Motors · 2018, 2019

- M.Sc. thesis across IoT, 3D printing and blockchain
- Solidity smart contracts on Ethereum
- Architecture, working prototype, AS IS and TO BE analysis
- MakerBot Replicator interfaced with a Raspberry Pi

PROJ / 08

Verigraph and other academic projects

Politecnico di Torino · 2016, 2018

- Verigraph, network policy verification and JSON marshalling
- IFTTT PoliTo, a client-server protocol
- ResponSEAble, fullstack PHP and Bootstrap for an educational game

STACK AND ENGINEERING

What I use today in production and in the projects that matter. A technical sheet, not a buzzword list.

Technical stack and approach.

LANGUAGES

Python · TypeScript · Bash · Java · Kotlin · Go · Rust · Elixir · ADA

AI ENGINEERING

RAG · Graph RAG · MCP · Multi-agent orchestration · Knowledge graph, OKF · Embedding pipelines · LiteLLM · Rig-core

BACKEND AND API

OpenAPI-first · FastAPI · Axum, Tokio · Express · Celery · Event-driven microservices

DATA

PostgreSQL · Qdrant · Neo4j · Elasticsearch · Redis · SQLite

FRONTEND

React, Next.js · Tailwind · Shadcn · Bun

DEVOPS AND TOOLING

Docker · Vercel · uv · Cargo · Raspberry Pi edge · Ruff, Clippy, ESLint · Conventional Commits

TESTING AND ARCHITECTURE

Pytest | Playwright | TDD pragmatico | Plugin system | Monorepo | Spec-driven development

LEGACY

Corda R3 | Solidity, Ethereum | Hyperledger | C#, .NET, WPF | PHP | React Native | Unity 3D | MongoDB, IPFS

DAILY USE | WHAT I AM KNOWN FOR | LEARNING NOW | KNOWN, MOVED ON

VERTICAL DOMAINS

Banking e IAM | Government | Aerospace e Defence | Fintech | Geospatial | Simulation | IoT e home automation | Document processing e OCR | Blockchain enterprise | Industry 4.0

EDUCATION, REGISTRY, LANGUAGES

Formal credentials, in a nutshell.

Education, qualifications and spoken languages.

2019

M.Sc. in Computer Engineering

Politecnico di Torino

2023

Chartered Engineer, section A

Ordine degli Ingegneri di Alessandria

Italian madrelingua / native English B2 / C1 French A2

INSTITUTIONAL ACTIVITY AND CULTURAL INTERESTS

What I do outside paid work, and the topics I study consistently.

Beyond the code commitments and interests.

2025

Founding member, Aerospace Commission

Ordine degli Ingegneri della Provincia di Alessandria

The commission works on converting the industrial base around Alessandria from automotive to aerospace and defence, through outreach, seminars and a mapping of the skills the sector's standards demand.