GIANCARLO FRISON



gfrison.com



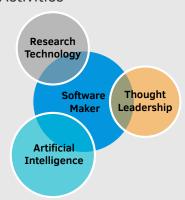
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/in/qfrison

Propose solutions to business problems Provide end-to-end software artifacts Ambassador for innovative projects

Activities -



- •Full-stack programming in Scala and Javascript
- •Adept to natural language processing
- Applied ML knowledge for research
- Thought leadership for stakeholders

Education -

M.Sc Cognitive Systems

Open University Cyprus 2023 - Dec 2025 (estimated)

Master Thesis

Program Synthesis with Large Language Models

B.Eng, Computer Engineering

University of Padua 1995 - 1999 | Italy

Diploma in Industrial Engineering

ITIS of Bassano del Grappa 1990 - 1995 | Italy

- Speaker at SEMANTICS
- * SAP Architect Curriculum
- Professional Scrum Master
- ITIL® Certificate Service Management

Experience

Now Software Research Engineer

SAP, Munich

- 2014 •Kubrick: Functional-logic programming system with relational algebra and combinatorial primitives in a simple declarative language for solving complex optimization requests by AI agents.
 - •<u>EpiQA</u>: Question/answering for complex retail queries. An hybrid AI (symbolic + LLMs) approach for more fine-grained resolution of customer's search utterances than retrieval-augmented generation (RAG) methods.
 - •<u>BeWater</u>: Leverage reasonable <u>arguments</u> from knowledge graphs for recommending products and services. The system interacts with customers for eliciting preferences and justify recommendations.
 - •<u>Zefiro</u>: Automated salesperson. The system relies on <u>Bayesian networks</u> and reinforcement learning to acquire preferences and personality traits via visual elicitations and interactions. Thus, it enables product offer personalization and adapting selling strategies. A didactic utility for Bayesian networks is also available on Github.
 - •<u>Charly</u>: Conversational commerce based on an <u>innovative</u> neural network architecture (released 2017) integrated with Facebook Messenger and the SAP ecosystem. It allowed to <u>easily search</u> products, perform orders, open support tickets and question/answering over FAQ pages.
 - •Charon: Ideated and implemented inter-process software library deployed within SAP Commerce Cloud for facilitating developers on accessing remote services. This standard tool (available in the SAP Commerce Toolkit) leveraged reactive/event-driven programming for efficient resource allocation.

2013 Selected Attendee

TechPeaks. Trento

Selected for the <u>training program</u> of the startup accelerator on Lean Startup methodologies, business planning, corporate administration and taxation.

Released business plan for investors and obtained financial grants.

Searched for synergies with commerce partners. Acquired business license for food management.

2011 Software Specialist

Italy/The Netherlands

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- 2002 •Built and tutored the distributed micro-service system for B2C and B2B SMS delivery management for a telco startup in Milan.
 - •Re-written the SMS B2B delivery system for Vodafone, based on microservice architecture with FioranoMQ.
 - •Implemented XMPP (chat protocol for messaging applications) high performant server-to-server library in Java for a Messagging startup in Rotterdam.
 - •Created the BrokerTec (financial market for government securities) facility integration, for a finance company in Milan.
 - •Developed the VXML (Voice XML, a domain specific language for voice automation) interpreter binded with MRCP protocol (a voice protocol for negotiation audio streaming resources) for voice automated assistants.
 - •Implemented IBM's Rational Software Architect plugins for Low Code/No Code Model Driven Architecture to allow functional operators to setup new banking services in a UML based user interface without programming intermediaries.

Patents

2023 Scariatti.iii-iiieiiiory hyper-graph macinile	12,300,010 Granteu
2025 Consumer recommender with Knowledge C	Graphs. 17/546,426 Granted
2024 Hyper-graph store representation and que	ery mechanism. 18/972,932 Pending
2023 Time-based query processing for system d	dynamics. 18/078,558 Granted
2022 Low-code algorithm for knowledge reason	ning. 18/078,566 Pending
2022 Concept search in e-commerce via word er	embeddings. 16/201,737 Granted
2021 Symbolic machine learning over Knowledg	ge Graphs. 17/546,450 Pending
2021 Extraction of collations for search.	16/687,982 Granted
2021 Foraging Preferences for E-Commerce Rec	commendation. 16/687,951 Granted
2021 Smoothing conversational contexts for dig	gital agents. 16/177,983 Granted

2025 Scarlatti:in-memory hyper-graph machine learning