GIANCARLO FRISON



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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 •<u>Kubrick</u>: Functional-logic programming system with relational algebra and combinatorial primitives in a simple declarative language.

- •EpiQA: 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 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 <u>Bayesian networks</u> 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, <u>business planning</u>, 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

16/177,983 Granted

- 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

18/972,932 Pending
18/078,558 Granted
18/492,418 Pending
18/078,566 Pending
16/201,737 Granted
17/546,450 Pending
17/546,426 Pending
16/687,982 Granted
16/687,951 Granted
1

2021 Smoothing conversational contexts for digital agents.