

Jayper Sanchez

AI Chatbot Solution Architect | Agentic AI | LLM Architect | Enterprise AI Systems | Solutions Designer

Mississauga, Ontario, Canada

Contact Information:

- **Phone:** 916.525.7143, +63 927.856,0238
 - **Email:** jaypersanchez@gmail.com
 - **Telegram:** @jaypersanchez
 - **Twitter:** @jaypersanchez
 - **Youtube:** <https://www.youtube.com/@jaypersanchez>
-

Professional Summary

AI Chatbot Solution Architect with 8+ years of hands-on experience designing large-scale AI architectures. Expert in agentic AI, LLM deployment, and chatbot frameworks for enterprise platforms. Proven track record of delivering intelligent assistants, scalable semantic engines, and custom GPT-powered bots across recruiting, legal, and productivity domains.

Technical Skills**AI Chatbot Architecture & Agentic AI:**

- Architected intelligent agents with memory (ElizaOS, Ardent) for end-to-end automation.
- Designed conversation flows, intent recognition, and vector-based semantic engines.
- Integrated OpenAI, Gemini, DeepSeek, HuggingFace Transformers for chatbot orchestration.
- Experience fine-tuning and deploying LLMs for domain-specific Q&A.
- Knowledge of frameworks for agent-based workflows, federated learning, and secure deployment.
- Scalable backend development using Flask, Node.js, and PostgreSQL.
- Deployments across GCP, AWS, and SAP BTP for scalable AI delivery.

Solution Architecture Skills:

- Enterprise Solution Design, Technical Roadmaps, Microservices Architecture, System Integration, OpenBB SDK.

Programming Languages:

- Python, Java, JavaScript, SQL, C++, Solidity, Websockets

Frameworks and Platforms:

- Spring Boot, Node.js, J2EE, React, Angular.

Databases:

- PostgreSQL, MongoDB, Oracle, MySQL, MSSQL.

Cloud Platforms:

- AWS (S3, EC2), Azure, GCP (BigQuery, Compute Engine), SAP BTP.

DevOps Tools:

- Docker, Kubernetes, Jenkins, Git, CI/CD, Apache Tomcat, NGINX
-

Professional Experience

Virian Chainworks

Full Stack Engineer

January 2018 – Present

- **Architected and implemented AI-powered applications** including semantic job-talent match engines and Agentic AI assistants (ElizaOS, Ardent) for recruiting and productivity workflows.
- Built AI services using **Python, Flask, sentence-transformers**, and **PostgreSQL-backed vector databases** to support semantic search and generative Q&A on user documents and job data.
- Designed and deployed **LLM fine-tuning pipelines** using HuggingFace Transformers, enabling domain-specific Q&A and document understanding features.
- Delivered **Generative AI applications** like:
 - An **AI resume and cover letter generator** tailored to job descriptions.
 - An **AI agent for freelancer platforms** that reads job posts and autonomously generates proposals.
- Integrated **OpenAI, DeepSeek, and Gemini APIs** for advanced language generation, retrieval augmentation, and custom bot conversations.
- Created **agent-based crypto trading bot** combining AI signal analysis with KuCoin API and OpenBB SDK for market research.
- Led **federated AI and sovereign privacy project (NOVA)** to deliver SaaS-ready, local LLM services for businesses with strict data compliance needs.
- Developed AI-driven dashboards and admin tools using **Tkinter and Python** to streamline data audits and customer support.

AI & Machine Learning Projects

ScoutJar AI Matching System

Built a semantic matching engine for job/talent search using embeddings and NLP filters. Supported active and passive profile modes with fine-tuned match thresholds and AI-enhanced scoring.

Amihan Solution

Software Architect & Senior Fullstack Developer

July 2024 – December 2024

- Integrated SuccessFactors data with external application
- Led R&D projects, designing innovative software solutions for SAP SuccessFactors and SAP BTP ecosystems.
- Managed deployed applications on BTP Cockpit using Foundry
- Spearheaded the development of enterprise-grade solutions, ensuring high performance and scalability using Agile Sprint methodology and other projects using SDLC.
- Designed the database structures that stored SuccessFactors data into PostGresql.

JobDeal

Interim Chief Technology Officer

October 2022 – October 2024

- Directed the design and implementation of distributed systems for a matchmaking platform.
- Designed the database for the application in Postgresql.
- Created roadmaps leading to an MVP release, integrating advanced cloud and database technologies.
- Integrated ElizaOS for the platform's Agentic AI Agent.

Shyft Network

Fullstack MERN Developer

September 2018 – September 2020

- Developed decentralized applications and tokens for DeFi platforms.
- Created the SHFT ERC20 token in Solidity
- Integrated APIs with smart contracts to enable seamless Web3 interactions.

BC Ferries

Business Intelligence Jasper Reports Developer

September 2018 – December 2019

- Built and optimized SQL queries for fleet-wide reporting using Jasper Reports.
- Streamlined ETL processes using Oracle and Hadoop for offline data processing.

Fujitsu Global

Senior Technical Consultant

March 2015 – March 2017

- Developed scalable microservices using Spring Boot and Oracle databases.
- Automated ETL processes using Microsoft SSIS for enhanced data integration.
- Created reports using Jasper Reports.

SaskPower

Enterprise Mobile Developer Consultant

September 2012 – February 2015

- Designed mobile applications for internal operations, integrating with SAP systems with React Native
- Built responsive web applications using SAPUI5.

Research In Motion (BlackBerry)

Mobile Developer Consultant

August 2011 – September 2012

- Created enterprise applications for BlackBerry smartphones and tablets with Javascript and C++ for the Blackberry Playbook.
- Developed tools for enterprise resource management and RESTful APIs.

eSupplyLink

J2ME Developer Consultant

May 2010 – June 2011

- Designed inventory management systems integrating barcode scanners with database systems with J2ME.
- Developed Swing client applications and Java J2EE solutions for shipping and receiving workflows.

DHS Government of Florida

Intersystems Cache Developer Consultant

December 2009 – January 2010

- Built ETL pipelines to enhance public health data reporting during the R1N1 outbreak.

Quest Diagnostics

MUMPS/Cache Programmer Analyst

June 2007 – November 2009

- Created comprehensive diagnostic reports and ETL workflows to enhance operational efficiency.

Golden1 Credit Union

MUMPS/Cache Programmer Analyst

January 2004 – May 2007

- Developed backend systems for banking operations, enhancing nightly data processing.

DST Output

Lead Java Developer

November 1999 – December 2003

- Developed internal applications with Java and Oracle, creating ETL pipelines for manufacturing data reporting.
- Developed custom internal reporting application with Java Swing.

Certifications

- Databricks Certified Data Engineer Associate Badge
- Blockchain Smart Contract Developer Certification
- SQL Essential Training
- SAP Associate Certificate

Education

- **Certificate in HCIT Implementation Support Specialist, EHR Systems** – Cosumnes River College (2006)
- **Associate's Degree in Computer Programming & Systems Analysis** – CompuCollege School of Business (1998)