

CHRISTOS GRIGORIADIS

Full Stack Developer with AI Specialization

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ABOUT ME

Highly motivated Software Developer specializing in AI integration. Passionate about learning and utilizing new technologies to develop high-performance solutions. Dedicated to driving innovation through strategic AI implementations.

EDUCATION

- **Integrated Master's Degree** in Computer Science & Engineering, University of Ioannina
- Studied Business Management, University of Piraeus (Incomplete)

LANGUAGES

Greek: Native
English: Proficient
German: Intermediate

EXPERIENCE

Software Developer (AI Integration Specialist) P&I AG

September 2023 – Present Ioannina, Greece

- **Full Stack Development**
 - Developed and maintained web applications using Jakarta EE, PostgreSQL, React.js, and Elasticsearch.
 - Collaborated with cross-functional teams to deliver scalable and robust software solutions.
- **AI Integration Project**
 - Selected to carry out a strategic project integrating AI capabilities into existing company applications.
 - Researched the latest AI trends and selected TensorRT-LLM and Triton Inference Server for optimal performance.
 - Designed and built AI inference servers from the ground up, implementing optimizations and automations for stable production environments.
 - Developed a proxy strategy to seamlessly connect AI services with existing applications, enhancing functionality without disrupting user experience.
 - Successfully integrated AI features including ASR, Chat Assistants, Agents, Text-to-SQL, and RAG.
- **Open-Source and In-House Development**
 - Utilized open-source technologies to develop in-house solutions, reducing costs and increasing control over software functionalities.

SKILLS

Languages: Python, Java, React, SQL, Bash, C

Frameworks & Tools: Jakarta EE, React.js, PostgreSQL, Elasticsearch, PyTorch, PySpark, RapidsAI, REST APIs, Docker, TensorRT-LLM, Triton Inference Server, Kafka, Redis, FastAPI

AI: Open-source LLMs, Automatic Speech Recognition (ASR), Chat Assistants, Agents, Text-to-SQL, Retrieval-Augmented Generation (RAG), Voice GANs (TTS), High performance local Deployments

PROJECTS

- **Current Projects**
 - **Real-Time Bidirectional Transcriber and Translator**
Developed a real-time, bidirectional transcriber and translator for online conferences using Whisper for speech recognition and HiFi-GAN for speech synthesis. The system supports many-to-many language translation with minimal delay—less than 0.5 seconds when speaking and less than 1 second for incoming speech—providing a seamless subtitle-like experience. [\[GitHub Repository\]](#)
 - **Financial and Political News Scraper Web Application**
Created a high-performance web application that scrapes financial and political news, offering analysis and summaries. Designed and implemented an optimized data pipeline—using a scraper, PostgreSQL for data storage, Kafka for messaging, and Redis with auto-invalidation for caching—to ensure ultra-fast data retrieval and web app responsiveness. Integrated a voice model that announces the news gathered each day. This project is currently in a private repository but is available upon request.
 - **Personal AI Assistant for Smart Home Integration**
Developed a personal AI assistant with voice input and output capabilities. The assistant integrates with smart home lighting systems, manages personal email for fetching, reading, and responding, controls Spotify playback via voice commands through a Bluetooth speaker, and interfaces with a local SearXNG Docker instance for internet searches. Designed with modularity to allow easy addition of new features. [\[GitHub Repository\]](#)
 - **E-Commerce Applications**
Developed multiple e-commerce applications using React and React Native for the frontend, and Spring or FastAPI for the backend. These applications feature responsive user interfaces and robust backend services. [\[GitHub Repository\]](#)
- **University Projects**
 - Developed various projects during my university studies, focusing on software development, machine learning, and early touches of AI.
 - Detailed descriptions can be found on my university [website](#).