

Denis Craciun

Software Developer

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Skills

Languages: TypeScript; Python; C; Java; Assembly ARMv7

Frameworks: React; Angular; Django; Node.js; Flutter

Tools & Concepts: Bitcoin Implementation; AI Implementation; RAG; VectorDB, LangChain; PyTorch; Numpy; Pandas; NLP; Fine-tuning (QLoRA); Git; Docker;

Work History

InnovYou, Remote - *Software Developer*

Mar 2023 - Present

- Developed full-stack features using React and Node.js
- Implemented Bitcoin integrations on lightning network
- AI R&D department lead
- Implemented open-source AI models (Ollama, Huggingface) utilizing RAG approach, VectorDB, sentence transformers and more
- Saved time and resources by identifying and fixing bugs before product deployment.
- Improved software efficiency by troubleshooting and resolving coding issues.
- Contributed to a positive team environment through effective communication, problem-solving, and collaboration skills.
- Updated old code bases to modern development standards, improving functionality.

Abivet, Remote - *Software Developer Junior*

Sep 2022 - Mar 2023

- Medical video conference app development
- Integrated third-party APIs into mobile applications, enhancing their functionality and usability for end users.
- Enhanced app performance for a smoother user experience by optimizing code and troubleshooting issues.
- Developed user-friendly mobile applications by incorporating intuitive design and seamless navigation features.
- Improved software efficiency by troubleshooting and resolving coding issues.

Education

The Open University - *Master of Science: Finance*

Oct 2025 - Expected Oct 2027

University Of Pisa - *Bachelor of Science: Computer Science*

Sep 2023 - Oct 2025

I.S.I.S. Foresi - *Scientific College Diploma*

Sep 2017 - Sep 2023

Projects

DerpGPT - *AI Model From Scratch*

DerpGPT is a conversational 50M parameters AI model that generates responses based on synthetic persona-chat datasets. It was trained on multi-turn dialogues but often struggles to keep things coherent. Whether it's making up bizarre responses, misunderstanding context, or just plain derping out, DerpGPT is here to entertain.

Vivia - *AI Chatbot for tourism*

Vivia is an AI-powered chatbot designed to act as a personal tourist guide, currently specializing in Sardinia, Italy. It is available as a standalone plugin and integrated into a customer-facing PWA. The AI model behind Vivia utilizes advanced methodologies such as RAG and is further enhanced with QLoRA fine-tuning to meet specific client requirements. Vivia serves as the user-friendly interface for a sophisticated AI backend, referred to as the "Service Provider AI" (SPAI). SPAI is built using technologies like Langchain, Natural Language Processing (NLP), and VectorDB. It also incorporates AI agents that elevate the chatbot's functionality on the PWA by executing actions such as providing live suggestions for merchants, based on data from Vivia's database and the AI model's output.

Genetic Algorithm - *Dot Navigation*

A small visual demo that shows how a genetic algorithm can teach a swarm of dots to learn a path to a goal point. Everything is plain HTML + JavaScript.

Qubit Simulator - *Visual Qubit Simulation*

A fun and interactive visual simulation of a quantum computer built using Python and Pygame. This project lets you play around with qubits, apply quantum gates, and see how quantum states change in real-time.

Interests

As a self taught developer, I secured my first software role prior to beginning university, driven by a passion for continual learning and real world application. My curiosity for cybersecurity has led me to compete in Capture the Flag tournaments, sharpening my skills through friendly competition and problem solving. Sport has always been central in my life as I have played football since childhood and, over the last two years, I have dedicated myself to martial arts, which improved me both physically and mentally. I am also an enthusiastic watch lover, fascinated by the mechanics of horology, and I follow finance and investing closely, enjoying the analytical thinking and market insight that comes with it.