Vincent Déniel

SENIOR SOFTWARE ENGINEER | AI, AGENTIC, FULL STACK, TYPESCRIPT, PYTHON

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PROFILE

Freelance Senior Software Engineer, available for new opportunities. Specialized in full stack TypeScript/Python development and AI integration (LLMs, agents, RAG). Experience as CTO and Lead Developer.

SKILLS

Programming Languages

JavaScript · TypeScript · Python

Artificial Intelligence & Generative AI

LLM · AI Agents · RAG (Retrieval-Augmented Generation) · Stable Diffusion · Flux · AI API Integration

Frontend Development

React.js · Next.js · HTML5 · CSS · TailwindCSS

Backend Development

Node.js · Express · NestJS · Flask · FastAPI

Databases

PostgreSQL · MongoDB · Amazon DynamoDB · IBM DB2 · SQL

EXPERIENCE

Jun 2026 Present

Freelance Senior Software Engineer – Full Stack & AI

PhantomBuster — Bordeaux, Nouvelle-Aquitaine, France · On-site

At PhantomBuster, creation, integration and testing of AI agents, as well as integration and usage of LLMs.

- Creation, integration and testing of AI agents
- Integration and usage of LLMs (LangChain)
- Testing and evaluation of AI agents (DeepEval)
- Full stack development using TypeScript, React.js and Python
- Stack: TypeScript, React.js, Python, LangChain, DeepEval

Oct 2025 Dec 2025

Freelance Senior Software Engineer – Full Stack & AI

PayFit — Bordeaux, Nouvelle-Aquitaine, France · Remote

Mission at PayFit focused on improving the acquisition funnel and deploying a referral program.

- Development and optimization of the user acquisition funnel (React.js, NestJS, TypeScript)
- Design and implementation of a referral program for new customer acquisition
- Backend development on AWS with Amazon DynamoDB

Cloud & DevOps

Amazon Web Services (AWS) · Google Cloud (GCP) · Linux · Apache · Nginx

Software Engineering & Quality

Domain Driven Design (DDD) · Functional Programming · Test Driven Development (TDD) · Scrum · Agile Methods · Software Architecture · Code review

LANGUAGES

French	Native
English	Fluent and Professional

EDUCATION

Master's Degree (M2) — Physical Sciences – N3A – New states of matter, exotic nuclei and clusters

University of Caen Lower Normandy

2009 – 2011

PROJECTS

Operative AI

Private search engine combining a local AI model and a RAG (Retrieval-Augmented Generation) architecture for semantic search on personal data.

https://github.com/vincentdnl/operativeai

— Contribution to improving the team's software development practices

— Stack: AI, TypeScript, React.js, NestJS, Node.js, AWS, Amazon DynamoDB

Sep 2024
Jul 2025

Freelance Senior Software Engineer – Full Stack & AI

Kazaar — Bordeaux, Nouvelle-Aquitaine, France · Remote

Full stack and AI development mission for Popmate products and the Kazaar print marketing platform.

— Frontend and backend development of Popmate, an AI image generation chatbot for Point of Sale (POS) advertising

— Integration of image generation models: Stable Diffusion, Flux

— Implementation of LLM (AI) pipelines

— Feature development on the Kazaar print marketing platform (React.js, NestJS)

— Stack: AI, TypeScript, NestJS, Node.js, React.js, PostgreSQL, LLM, Stable Diffusion, Flux

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May 2022
Aug 2024

Chief Technology Officer & Co-founder

Bulldog — Bordeaux, Nouvelle-Aquitaine, France · Remote

Role as CTO and co-founder of a startup specializing in marketing loyalty through AI.

— Design and deployment of a marketing loyalty platform based on LLM and AI models

— Platform used by several clients, including a CAC40 group

— Definition of technical architecture, stack choices, and product roadmap

— Management of the development team, recruitment, and upskilling

— Application of TDD and rigorous software engineering practices

— Stack: AI, TypeScript, React.js, Next.js, Node.js, Python, LLM, Linux

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Apr 2024
Jun 2024

Trainer – Code Quality and Maintainability

EPSI - Engineering School of Computer Science — Bordeaux, Nouvelle-Aquitaine, France · On-site

Master 1 level course in software engineering focusing on code quality and maintainability.

— Teaching the 'Code Quality and Maintainability' module for M1 software engineering students
— Instruction on Test Driven Development (TDD) and TypeScript best practices
— Transmitting software engineering methods applicable in a professional context

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Apr 2024
Jun 2024

Trainer & Jury Member – Final Year Project

CESI — Bordeaux, Nouvelle-Aquitaine, France · On-site

Supervision of the M2 cohort on a final year project (meal delivery platform) and participation in the defense jury.

— Supervising final-year master's students in building a full stack project
— Providing guidance on agile methods and software engineering practices
— Participation in the final project validation jury

Sep 2016
Apr 2022

Lead Developer – Full Stack Python & TypeScript

myElefant — Bordeaux, Nouvelle-Aquitaine, France

Development of a SaaS SMS marketing platform acquired by Sinch, the global leader in SMS messaging.

— Full stack development of a SaaS marketing SMS platform (Python, TypeScript, React.js, Node.js)
— Assumed leadership responsibilities: code reviews, architecture, mentoring
— R&D on new distribution channels: Meta (Facebook) Messenger and RCS chatbots
— Participation in the platform's integration into the Sinch product ecosystem
— Working with agile methods (Scrum) and applying TDD
— Stack: Python, TypeScript, React.js, Node.js, Linux, Scrum, TDD

May 2020
Jul 2020

Trainer – Information Security

EPSI - Engineering School of Computer Science — Bordeaux, Nouvelle-Aquitaine, France

Master 1 level course in software engineering focusing on IT security.

— Teaching an information security module for M1 students

— Instruction on web vulnerabilities and security best practices (TypeScript, Node.js)

Sep 2016
Mar 2020

Full Stack Developer – Python & TypeScript

Yaal — Bordeaux, Nouvelle-Aquitaine, France

Development of the myElefant platform within the Yaal company.

— Full stack development of the myElefant SaaS marketing SMS platform (Python, TypeScript, React.js)

— R&D on chatbots for Meta (Facebook) Messenger and RCS

— Working in Scrum and TDD within an agile team

— Stack: Python, TypeScript, React.js, Node.js, Linux, Scrum, TDD

Nov 2015
Sep 2016

Web Development Engineer – PHP & JavaScript

Smile Open Source Solutions — Bègles, Nouvelle-Aquitaine, France

Development and maintenance of client sites based on open-source CMS.

— Development and bug fixing on client websites (Magento, Drupal, WordPress)

— Stack: PHP, JavaScript, Magento, Drupal, WordPress

Oct 2013
Nov 2015

Freelance Web Developer

Vincent Déniel — Bordeaux, Nouvelle-Aquitaine, France

Development of websites for independent clients.

— Frontend development: HTML5, CSS, JavaScript (Angular.js, jQuery)

— Backend development: PHP, Symfony 2, WordPress

— PostgreSQL database management

May 2012
Jul 2013

Software Developer – IBM Systems

ADAMING CONSEIL — Le Haillan, Nouvelle-Aquitaine, France

Application development and maintenance on IBM mainframes for Logica/CGI.

— Application development and maintenance on IBM mainframes (COBOL)

— IBM DB2 database management (SQL)

Apr 2011
Jul 2011

Research Intern – Nuclear Physics

Corpuscular Physics Laboratory (LPC) — Caen and surrounding area

Development of data analysis tools for nuclear physics experiments.

— Development of data analysis tools (C++, Linux) for the INDRA team

— Processing and interpretation of experimental data in nuclear physics

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Apr 2009
Jul 2009

Research Intern – Nuclear Physics

Grand Accélérateur National d'Ions Lourds (GANIL) — Caen and surrounding area

Development of data analysis tools for nuclear physics experiments.

— Development of data analysis tools (C++, Linux) for the INDRA team

— Processing and interpretation of experimental data in nuclear physics