

Roland Vrignon

Full-Stack Web Developer

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🌐 www.roland.vrignon.com



📦 Professional Summary

Self-taught and passionate Full-Stack Web Developer with a proven ability to design and implement efficient and innovative software solutions. Skilled in automating processes and leveraging cutting-edge AI technologies. Experienced in end-to-end project development, from ideation to deployment, with a focus on delivering impactful and user-friendly applications. Deep understanding of Retrieval-Augmented Generation (RAG) principles, including implementation and practical use cases in AI-powered systems.

📦 Professional Experience

Founder, Normx (formerly Aitwork)

March 2023 – Present

- Developed Normx as a simple yet powerful software enabling businesses to create their own rule sets.
- Initially targeted the construction sector, focusing on technical control and project management assistance.
- Streamlined technical controllers' tasks by reducing document review time from 2 days to 1, thanks to AI.
- Implemented RAG to handle construction project files exceeding 2GB, ensuring effective document search and validation.
- Delivered outputs with 70% reliability, including citations, validation explanations, and document references.
- Transitioned controllers from manual search to efficient validation of AI-suggested results.
- Secured three clients with 300-400 employees each, providing scalable compliance solutions.
- Processed over 100 documents, ensuring accuracy and adherence to industry standards.
- Designed and implemented robust AI-driven tools for document verification and compliance tracking.
- Leveraged Next.js for frontend and backend development, enhancing platform performance and scalability.

Founder, Blindating

February 2021 – October 2022

- Built a university-focused dating app integrating a messaging system inspired by WhatsApp.
- Overcame WhatsApp API limitations by leveraging WhatsAppWebJS and Puppeteer for automated interactions.
- Addressed scalability challenges when WhatsApp blocked numbers exceeding daily group creation limits.
- Acquired initial users through a grassroots campaign distributing 400 flyers, achieving 300+ signups and 900+ matches.
- Demonstrated innovative problem-solving in architecture and marketing strategies.

E-Merchandiser (Work-Study), Pierre & Vacances Group

September 2019 – August 2021

- Conducted website personalization and executed A/B tests using AB Tasty and Google Optimize.
- Analyzed performance through tools like Hotjar, Google Analytics, and ContentSquare.
- Contributed to enhancing user engagement and improving conversion rates across digital platforms.

📦 Education

Systems and Network Administration

42, Paris | May 2022 – December 2023

<https://42.fr/>

- Ranked among the top 15% of the cohort, demonstrating excellence in technical and problem-solving skills.
- Developed advanced expertise in systems administration, network management, and scripting.

Master's Degree in Strategy & E-Business

IIM, Paris | September 2019 – August 2021

<https://www.iim.fr/>

Skills

Frontend

HTML CSS SASS Tailwind CSS Shadcn UI React.js Figma Next.js Vue.js Angular Svelte

Backend

Node.js Express MongoDB Next.js NestJS Deno Hapi.js Fastify

DevOps

Docker AWS GCP Kubernetes (GKE) Git Bash OpenMediaVault (OMV) DNS Systems (Cloudflare)

AI Tools

OpenAI Anthropic Cohere MistralAI HuggingFace Gemini Vercel AI/SDK RAG

Languages

Python Javascript Typescript

Personal Projects

Portfolio Website

<https://www.rolandvrignon.com>

- Built using Vercel AI SDK to deliver a cutting-edge chatbot interface.
- Implemented component rendering within the chat for specific actions to enhance user interaction.
- Enabled UI control directly from the chat (e.g., changing themes or language settings).

Private Server Hosting Setup

Objective: Develop and maintain a private server for hosting various personal and web services.

- Configured and deployed services on an OpenMediaVault (OMV)-based private server.
- Utilized Portainer for efficient Docker container management via a web interface.
- Set up Nginx Proxy Manager to manage web services and DNS redirections through Cloudflare.
- Deployed a Plex Media Server for multimedia content management, enabling seamless access to photos and videos.
- Focused on system reliability, scalability, and ease of management for personal and hosted services.

Minishell

Objective: Recreate a functional bash shell in C as part of a 42 Paris project.

- Designed and implemented a custom shell with a modular architecture divided into four main components: lexer, parser, expander, and executor.
- The lexer tokenizes input commands, ensuring syntax is correctly interpreted for further processing.
- The parser organizes tokens into an abstract syntax tree (AST) for structured command execution.
- The expander resolves environment variables and handles special characters like wildcards.
- The executor executes commands based on the AST, replicating bash-like behavior.
- Ensured support for key bash features, including pipes, redirections, and subshells.
- Available at <https://github.com/RolandVrignon/minishell>

Languages

French - Native English - Advanced German - Intermediate

Interests

Soccer Street Art Computer Science Photography Flea Markets Tennis Running Swimming Culture