

# Roland Vrignon

## Full-Stack Web Developer

☎ +33 7 69 70 12 68 ✉ [roland.vrignon@gmail.com](mailto:roland.vrignon@gmail.com)

🌐 <https://rolandvrignon.com> 📍 Paris 18, France

🌐 <https://linkedin.com/in/roland-vrignon> 🐙 <https://github.com/RolandVrignon/RolandVrignon>



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

<https://normx.co>

- 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

<https://blindating.rolandvrignon.com>

- Built a university-focused dating app.
- 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-Merchandise, Pierre & Vacances Group**

September 2019 – August 2021

<https://www.pierreenvacances.com>

- 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/>

### **Bachelor Full-stack Web Developer**

IIM, Paris | March 2016 – August 2018

<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

## Personnal 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 Dark Mode