

Valentin Martel

Developer with a passion for building — from Unix systems programming to 3D modeling in Blender — looking to contribute to hands-on technical projects.

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Education

42 PARIS Since 11/2024
• Intensive project-based software engineering program, ranked #3 worldwide for innovation (WURI 2025)
BTS in Communication (two-year technical degree), *ETS Paris* 01/2021 – 07/2022

Technical Skills

- **Languages:** C, C++, Python, JavaScript / Node.js, Bash, SQL, HTML
- **Systems:** Linux, process management, signals, pipes, file descriptors
- **Backend / Web:** Node.js, Express, REST APIs, MySQL, JWT + bcrypt authentication, HMAC signatures, Stripe integration (PaymentIntent + webhooks)
- **Mobile:** React Native, Expo (SDK 54), EAS Build / Submit / Update, iOS and Android
- **Tools / DevOps:** Git, Docker (multi-stage), Makefile, Nginx, Railway
- **Artificial Intelligence:** Design and deployment of AI agents (OpenClaw), prompt engineering, AI workflow integration and automation
- **3D Creation:** Modeling — Blender

Projects / Professional Experience

- **Minishell (C, Unix)** — Unix shell built from scratch in C: full parsing (lexer / expansion / quotes), pipelines, redirections, heredocs, POSIX signals and environment variables. Rigorous process management and zero memory leaks.
- **SpendR (React Native / Expo, Node.js, MySQL, Stripe, Docker)** — Full-stack mobile app for premium nightlife, targeting iOS and Android (App Store / Google Play): staff-generated HMAC-signed QR codes, Stripe payments (PaymentIntent + webhook verified against the raw body), live leaderboard of top spenders. Containerized Node/Express backend deployed on Railway with a managed MySQL database; mobile release pipeline via EAS Build / EAS Submit.
- **Musée en Herbe Ticketing** — Full-stack web application (Node.js, React, MySQL) built for a Paris museum: overbooking prevention through atomic transactions, HelloAsso payment integration (OAuth2 + HMAC webhooks), GDPR compliance, Dockerized deployment.
- **3D Teaser — Maukah's Team** — End-to-end creation of a 1-minute video teaser made entirely in 3D with Blender.
- **Private Coaching — Muay Thai** — Designed training programs tailored to each student's profile; tracked and supported their progress.

Soft Skills

- Highly autonomous, with a proven ability to learn and build independently.
- Adaptable to new technologies and challenges.
- Perseverance and rigor in debugging and optimization.
- Collaborative mindset in team environments.

Languages

French: native English: fluent (C1)

Interests

Muay Thai 2 professional fights in Thailand	Skateboarding 10 years of practice	Travel Europe, Asia...	AI OpenClaw, Claude Code...
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Licenses

■ Driver's license (B) ■ Coastal boating license