SAMUEL ROLAND VROOM

Full-Stack Developer | React · Next.js · TypeScript · Python · PHP · WordPress

Southwestern Ontario, Canada (Open to Remote & Relocation — Sarnia / London) • 548-255-7484

sr.vroom@outlook.com | linkedin.com/in/samuel-roland-vroom | github.com/ninjaVroom | samuelrolandvroom.com

PROFILE

Full-stack developer with 5+ years of experience designing in Figma and shipping production web applications in React, Next.js, TypeScript, Node.js, Python, PHP, and WordPress. Proven track record modernizing legacy systems, modeling relational databases in PostgreSQL, implementing Canadian tax and payment workflows, and leading small engineering teams. Seeking a full-time developer role in Southwestern Ontario or remote across Canada.

TECHNICAL SKILLS

Frontend: React, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, Flutter, Three.js, Figma

Backend & CMS: Node.js, Python, FastAPI, PHP, Payload CMS, WordPress (Block Themes, Custom PHP, Elementor, WP-CLI), REST APIs, Stripe

Data & ML: PostgreSQL, MySQL, SQL, NumPy

DevOps & Tools: Git, GitHub, CI/CD, Docker, Ubuntu VPS, AWS, Automated Testing

TECHNICAL PROJECTS

Setspace — Hourly Studio Booking Marketplace

setspace.samuelrolandvroom.com

Next.js • TypeScript • PostgreSQL • Stripe • Figma

- Designed in Figma and built an end-to-end hourly booking marketplace for photo studios, podcast rooms, and film sets across Toronto, Montréal, and Vancouver.
- Enforced double-booking prevention at the database layer using a PostgreSQL exclusion constraint; configured the API to return HTTP 409 with the nearest free slots and verified concurrency with automated parallel-insert tests.
- Implemented financial calculations in integer cents with Canadian provincial tax logic (HST, GST, QST) and Stripe test-mode holds, captures, and refunds.

Orbit — Agency Project Management & Client Portal

orbit.samuelrolandvroom.com

Next.js • React • TypeScript • Node.js • Payload CMS • PostgreSQL

- Built a multi-role agency platform combining an internal Kanban board, a client-facing deliverable approval portal with versioned decision history, and automated CAD invoicing (GST/HST/QST).
- Centralized role-based business rules (owner, manager, member, client) into a shared reducer imported by both browser and server, ensuring server-side re-validation on every authenticated action.

Saemil AI — CPU-Only Neural Network Engine

saemil.samuelrolandvroom.com

Python • NumPy • CI (Python 3.10–3.13)

- Built a zero-framework neural network engine from scratch in NumPy (forward/backward passes, loss functions, Adam optimizer) running entirely on CPU—powering MNIST digit recognition (101,770 parameters, 93.75% accuracy), character-level name generation, and tabular purchase-probability prediction.
- Engineered an offline-first explanation bridge with deterministic template fallback so local runs never silently fail over to paid API providers.

Alderframe Studio & Northline — Custom WordPress Builds

WordPress · PHP · HTML5 Canvas

WordPress • PHP • Block Themes • Elementor • WP-CLI • HTML5 Canvas

- **Alderframe Studio (**alderframe.samuelrolandvroom.com**):** Built a custom native WordPress block theme in PHP with 26 dynamic blocks for a Toronto residential landscape architecture studio.
- **Northline Operations Advisory (**northline.samuelrolandvroom.com**):** Engineered a custom child theme and Elementor site with 15 locked, brand-safe widgets, custom post types for services and case studies, and a scroll-driven HTML5 canvas animation scrubbing pre-rendered WebP frames (generated via Python/Blender) for lightweight performance.

WORK EXPERIENCE

Senior Project Manager & Technical Lead | Bisa Technologies — Accra, Ghana *Jun 2023 – Oct 2023*

- Led frontend architecture and product delivery across a 4-person team (3 developers, 1 designer), shipping web event systems and mobile applications under tight launch deadlines.
- Built an emergency on-site QR quick-pass workflow during the 30th Afreximbank Annual Meetings when unregistered dignitaries failed database lookups—verifying IDs and generating instant QR passes so venue entry kept moving until permanent badges were printed the next day (Live demo rebuild: gatepass.samuelrolandvroom.com).
- Took sole ownership of the AkomaCare mobile application, executing a full visual rebrand and shipping gamified engagement features (Live demo rebuild: akomacare.samuelrolandvroom.com).

Project Lead & Full-Stack Developer | Click Communications (formerly Advocacy Media Services; now Akwaba Solutions) — Accra, Ghana *2017 – Jan 2023*

- Architected and maintained Akwaba Database, a member management, outreach, and employee attendance platform serving 200–300+ users across 3–4 institutions, including hospitals (Live demo rebuild: akwaaba.samuelrolandvroom.com).
- Led a full-stack modernization alongside a 3–4 developer team—migrating the legacy PHP backend to Python, rebuilding the frontend in React, and shipping a companion mobile app.
- Built user account, subscription, and payment workflows, lifting user engagement 30% across client web products through responsive redesigns, SEO tracking, and analytics.

EDUCATION & CERTIFICATIONS

Google Project Management Professional Certificate — Coursera *2026*

Ontario College Diploma, Broadcasting – Television and Independent Production — Conestoga College *2024 – 2025*

B.Sc. Marketing — University of Professional Studies, Accra *2012 – 2016*

ADDITIONAL EXPERIENCE

Guest Service Agent & Night Auditor | Home2 Suites by Hilton — Brantford, ON *Mar 2026 – Present*

- Manage solo overnight hotel operations, reconcile nightly revenue ledgers, trace billing discrepancies, and resolve guest issues independently.