

Robert Smith

Senior Streaming Platform Engineer & Full-Stack AI Developer

📍 Remote | ✉️ 1cptlink@gmail.com | 📞 424-703-5465 | 🌐 hotlink1.com

PROFESSIONAL SUMMARY

Senior Streaming Platform Engineer with 20+ years of experience architecting high-availability, low-latency video and audio delivery systems. Expert in building end-to-end streaming infrastructure—from encoding pipelines and CDN integration to real-time playback and content delivery platforms. Proven track record operating 24/7 streaming services at 99.9% uptime for 17+ consecutive years. 15+ years of virtual world development experience designing 3D environments, programming interactive gameplay systems, and managing virtual economies on Second Life. Deep expertise in modern full-stack development (Next.js, React, TypeScript) combined with hands-on AI integration and NLP-powered application development. Seeking senior engineering roles at Tier 1 streaming, media, and interactive entertainment companies.

TECHNICAL SKILLS

Streaming & Video Delivery: Audio/Video Encoding Pipelines, Live Streaming Infrastructure, Low-Latency Content Delivery, Pay-Per-View Systems, Real-Time Broadcasting, CDN Integration, SHOUTcast, WebSocket, Adaptive Bitrate Streaming, Custom Media Players, Playback Engineering

Frontend & Full-Stack: Next.js 14, React, TypeScript, Tailwind CSS, Framer Motion, Node.js, RESTful APIs, Serverless Functions

AI & Machine Learning: AI Chatbot Development, Natural Language Processing (NLP), AI-Powered Search & Recommendation, Prompt Engineering, Conversational AI

Databases & Performance: PostgreSQL, MySQL, Prisma ORM, Database Optimization, Complex Query Tuning, High-Traffic System Architecture, Core Web Vitals

Infrastructure & DevOps: AWS (S3, CloudFront), Linux Server Administration, CI/CD, Git/GitHub, High-Availability Architecture, 24/7 Operations, Monitoring & Alerting

Monetization & E-Commerce: Digital Ad Sales & Inventory Management, E-Commerce Product Sales, Payment Integration, Ticketing Systems, Revenue Strategy, Affiliate Marketing, Shopify, WooCommerce

3D / VR / Gaming: 3D Environment Design (Blender), Virtual World Development, LSL Game Scripting, Interactive Gameplay Systems, Virtual Economy Management, Multimedia Production (Animation/Audio/Streaming), Photoshop

Music Industry: Music Distribution (Major Label), Retail Account Management, Promotional Campaign Execution, Radio Production, Artist Promotion, Grassroots Marketing, Label Operations

Languages: JavaScript (ES6+), TypeScript, PHP, Python, SQL, HTML5, CSS3

PROFESSIONAL EXPERIENCE

Founder & Lead Streaming Engineer

Viddio — Live Concert Pay-Per-View Platform | 2023 - Present

- Architected a **live concert pay-per-view streaming platform** delivering exclusive event streams with sub-second latency to thousands of concurrent viewers
- Engineered **secure ticketing and access control system** ensuring only verified ticket holders can access premium live streams—zero unauthorized sharing
- Built **real-time streaming infrastructure** with WebSocket-based communication, adaptive bitrate delivery, and seamless playback across devices
- Implemented **payment integration and event management** system enabling artists and venues to monetize live performances directly
- Designed intuitive **event discovery and ticket purchasing flow** optimized for conversion on mobile and desktop

Lead Streaming Platform Engineer

Spizzle.com — 24/7 Streaming Platform | 2007 - Present

- Engineered and operated a **24/7 streaming platform for 17+ consecutive years** serving high-traffic concurrent listeners with **99.9% uptime SLA**
- Designed and built **complex audio/video encoding pipelines** for automated and live programming, achieving low-latency delivery across all device types
- Developed **automated content scheduling system** managing seamless transitions between 24/7 automated playlists and live broadcasts
- Built **custom responsive media players** with cross-browser compatibility, low-latency audio streaming, and mobile-optimized playback
- Managed **full-stack streaming operations** including server infrastructure, database management, CDN configuration, and real-time performance monitoring
- Scaled platform architecture to handle **traffic spikes during live events** while maintaining consistent stream quality

Full-Stack Developer, Platform Architect & E-Commerce Operator

Imperial Sun Labs — Clean Energy Platform & Solar Product Sales | 2024 - Present

- Built and operate a **revenue-generating e-commerce storefront** actively selling solar energy products online
- Managed **product catalog, pricing strategy, and affiliate sales partnerships** driving recurring revenue
- Integrated **payment processing, order management, and financial analytics dashboards** for business operations
- Developed **interactive data dashboards** for solar energy metrics and lithium valley ecosystem analytics
- Demonstrated ability to **architect complex, multi-feature platforms end-to-end** from database design to production deployment

AI Application Developer

Black Inventions — AI-Powered Educational Platform | 2024 - Present

- Built an **AI-powered chatbot using NLP** enabling natural language exploration of 100+ inventor profiles and patent records
- Integrated **conversational AI search system** that understands user queries and returns contextually relevant historical data
- Developed **intelligent recommendation engine** surfacing related inventors, patents, and innovations based on user interaction patterns
- Achieved high SEO performance through **server-side rendering** and structured data markup with Next.js 14

Web Developer (Client Project)

WayOut Entertainment — wayoutent.com | Las Vegas, NV

- Designed and developed **full business website** for WayOut Entertainment, a community-driven smoke shop and custom apparel brand
- Built **multi-location store showcase** with product displays for smoking essentials, premium glass, vapes, and accessories
- Implemented **custom apparel ordering system** for events, car clubs, bike clubs, weddings, and organizations
- Created **SEO-optimized brand presence** highlighting community engagement and local talent support

Founder, Developer & Ad Sales Director

AllCompton.com — Community Business Directory & Ad Platform | 2023 - Present

- Built and monetized a **local business directory** by designing and selling digital advertising packages to Compton businesses
- Managed **ad inventory, premium placement tiers, and pricing strategy** generating recurring platform revenue
- Developed **advertiser onboarding dashboard** enabling self-service ad management and campaign tracking
- Implemented **searchable directory with 18+ business categories** driving local discovery and community engagement

Full-Stack Web Developer

LINK Development — Freelance | 2004 - Present

- Delivered **100+ custom web solutions** across React, Next.js, PHP, and WordPress for clients in media, e-commerce, education, and entertainment
- Optimized **PostgreSQL and MySQL database architectures** with complex query tuning for high-performance data retrieval under heavy load
- Led full project lifecycles from **architecture design through deployment** and ongoing maintenance for production systems
- Implemented **technical SEO, analytics, and performance optimizations** driving measurable organic growth

VR Designer / Developer / Virtual Real Estate Manager

SecondLife.com (Linden Lab) — Remote | 2009 - Present

- Designed and developed **3D virtual environments using Blender and Photoshop** creating immersive experiences for 1,000+ active users
- Managed **Zoha Islands Estate — ranked #3 property portfolio** on the platform, generating revenue through virtual real estate sales
- Programmed **interactive objects and gameplay systems using LSL scripting language**, enhancing user engagement and immersion
- Built **SLHoods.com — a full roleplay system** powering urban community gameplay on Second Life
- Produced **multimedia content including animations, audio files, and streaming broadcasts** within the virtual world
- Managed **customer support and technical assistance** for active gaming community across multiple platforms

Music Distribution & Marketing Manager

RED Distribution (Sony Music) — Santa Monica, CA

- Managed **distribution strategies for major retail music accounts** across national markets
- Executed **promotional campaigns for hip hop releases** across regional markets
- Coordinated with retail partners on **product placement, pricing, and inventory strategy**
- Built relationships with key accounts to **maximize market penetration** for new releases

Radio Production / Promotions / Label Operations

Capitol Records / Loud Records / American Radio Network — Los Angeles, CA

- Worked across **artist promotion, radio production, and grassroots marketing campaigns** at major labels
- Produced **radio content and coordinated promotional campaigns** for major label releases
- Executed **grassroots and street marketing strategies** to drive artist visibility and record sales
- Collaborated with **A&R, marketing, and distribution teams** across multiple major labels

KEY PROJECTS

Viddiio — Live Concert Pay-Per-View Streaming Platform

Tech: Next.js, React, TypeScript, Streaming API, WebSocket, Payment Integration, Tailwind CSS

- Live event streaming with secure ticketed access, real-time playback, and artist monetization tools

Spizzle — 24/7 Streaming Media Platform (17+ Years Running)

Tech: Node.js, Encoding Pipelines, SHOUTcast, CDN, Custom CMS, WebSocket, Docker

- Production streaming platform with automated programming, encoding pipelines, and 99.9% uptime

WayOut Entertainment — Smoke Shop & Custom Apparel Brand Website (wayoutent.com)

Tech: Next.js, React, TypeScript, Tailwind CSS, Responsive Design, SEO

- Full business website for Las Vegas smoke shop chain with multi-location info, product showcase, and custom apparel services

AllCompton — Community Business Directory & Ad Monetization Platform

Tech: Next.js, React, TypeScript, PostgreSQL, Ad Tech, Payment Integration, SEO

- Monetized directory platform with digital ad sales, inventory management, and advertiser dashboards

Imperial Sun Labs — Clean Energy Platform & Solar Product E-Commerce

Tech: Next.js, React, TypeScript, PostgreSQL, E-Commerce, Payment Integration, Data Visualization

- Revenue-generating e-commerce platform selling solar products with affiliate partnerships and financial analytics

Black Inventions — AI-Powered Chatbot & Patent Tracking

Tech: Next.js 14, AI/NLP Integration, PostgreSQL, Prisma, Conversational AI

- AI chatbot with natural language patent search and intelligent recommendation engine

Zoha Islands — Virtual Real Estate Empire (#3 Ranked, Second Life)

Tech: Blender, 3D Design, Photoshop, LSL Scripting, Virtual Economy, Community Management

- Top-3 ranked virtual property portfolio with 3D environment design, revenue generation, and 1,000+ user community

SLHoods — Roleplay Gaming System (Second Life)

Tech: LSL Scripting, 3D Design, Game Mechanics, Database Systems, Multimedia Production

- Full roleplay system with custom game mechanics, interactive scripted objects, and companion community database

EDUCATION

Radio & Television (R/TV) — Long Beach City College

Commercial Music & Audio Engineering — Long Beach City College

Certificate in Broadcasting — LA Broadcasters, Hollywood

WHY MEDIA & ENTERTAINMENT COMPANIES WANT ME

- 🏰 **Battle-Tested:** 17+ years operating 24/7 streaming infrastructure—not theoretical, production-proven

- 🎮 **Virtual World Builder:** 15+ years designing 3D environments, scripting gameplay systems, and managing virtual economies on Second Life
- 📺 **Live Streaming Expert:** Built pay-per-view concert platform with real-time delivery and secure access
- 🤖 **AI Differentiator:** Hands-on AI/NLP integration for intelligent content discovery and recommendation
- 💰 **Revenue-Driven Builder:** Sold digital ads (AllCompton), solar products (Imperial Sun Labs), and virtual real estate (Zoha Islands)
- 🏠 **End-to-End Builder:** Architect entire platforms from database to UI—not just components
- ⚡ **Performance Obsessed:** 99.9% uptime, low-latency delivery, Core Web Vitals optimization