

Christopher Estevez

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TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Node.js, SQL, SAS, Bash/Shell, Windows Batch, Java, HTML, CSS

Clinical & Data: CDISC Standards (SDTM/ADaM), ETL Pipelines, Statistical Analysis, Data Visualization, Jira, Confluence

Backend & Security: Fastify, Web Crypto API, AES-256-GCM, PBKDF2, SHA-256, better-sqlite3, File System Operations, Zero-Knowledge Architecture, API Integration, PostgreSQL, Redis, MySQL

DevOps & Infrastructure: Docker/Compose, Multi-Stage Builds, Distrosless Containers, Git, Vercel, GitHub Actions, CI/CD Pipelines, GHCR, Multi-Arch Builds (amd64/arm64), Linux (Arch/CachyOS/Ubuntu/Fedora/Mint), Windows 11 Optimization, Cross-Platform Automation, Cloudflare Zero Trust/Tunnels/WAF, Traefik, Tailscale VPN, Authelia (SSO/2FA), CrowdSec (WAF)

Web Development: React, Next.js 14, Tailwind CSS, SSR, ISR, react-google-translate (i18n), Framer Motion, RESTful APIs, YouTube Data API, Twitch Embed API, PayPal/Stripe Integration, Responsive Design, Component Architecture

AI & Automation: GitHub Copilot, ChatGPT, Claude, Gemini, Self-hosted LLMs, Prompt Engineering, Python TUI Development, SSH Orchestration, Process Automation, Idempotent Script Design

Infrastructure, IoT & Tools: Home Assistant, Scripted (HKSVM), Homebridge, Zigbee/Z-Wave, Beszel, Portainer, Dozzle, Reverse Proxies, Firewall Management, Secret Management, Excel, SEO Optimization, Performance Tuning, Agile/Scrum, Bilingual (English/Spanish)

PROFESSIONAL EXPERIENCE

Biomarker Clinical Programmer

Oct 2022 – Sep 2024

Gilead Sciences

Raleigh, NC

- Automated biomarker data workflows using Python and SAS, reducing manual processing time by 40% and increasing data throughput across clinical trials.
- Spearheaded end-to-end design and implementation of biomarker data pipelines for 5 Phase II/III trials, collaborating with 8 global cross-functional teams to deliver datasets 2 weeks ahead of regulatory deadlines.
- Built and standardized library of 15 reusable SAS macros for subject-level and TE data, cutting code duplication by 75% and decreasing development time per study by 3 days.
- Led biomarker programming representation in 20+ quarterly steering committee meetings, accelerating regulatory review cycles by 15% through proactive technical-clinical alignment.
- Collaborated on development of 10+ clinical dashboards used by stakeholders, reducing data query turnaround by 50% and enabling faster trial decision-making.
- Authored 12 comprehensive onboarding guides and playbooks in Confluence/Jira, enabling 100% offshore transition of biomarker programming workflows with zero knowledge gaps.
- Earned recognition for ultra-fast ad-hoc analysis turnarounds (fulfilled within hours), boosting cross-functional team satisfaction scores by 20%.
- Maintained 100% audit-compliant records across all biomarker data processes, passing all internal audits with zero findings.
- Stack: Python, SAS, SQL, Jira, Confluence, Data Visualization Tools.

Statistical Programmer Associate

May 2022 – Oct 2022

Gilead Sciences

Raleigh, NC

- Automated complex SAS transformations using internal macros, reducing data processing time by 30% and increasing reporting efficiency by 25%.
- Created CDISC-compliant datasets (Demographics, Lab Test Results) in SAS and SQL for FDA-ready submissions, ensuring 100% regulatory compliance across 4 clinical studies.
- Contributed clinical data and business logic to 8 leadership dashboards, enabling identification of key trends that improved trial enrollment by 20%.
- Collaborated with global data managers and project leads to validate and finalize clinical datasets, contributing to 3 on-time FDA filings.
- Completed Gilead's Programming Academy, mastering pharma workflows and regulatory standards, and presented best-practice guidelines to cohort of 6 new programmers.
- Stack: SAS, SQL, Excel, CDISC Standards.

Production & Camera Crew

Oct 2020 – Oct 2021

MrBeast YouTube, LLC

Greenville, NC

- Contributed to production of 20+ viral videos achieving over 1 billion cumulative views, supporting MrBeast channel growth from 45M to 72M subscribers and driving 60% increase in engagement metrics.

- Orchestrated technical setup and maintenance of camera, lighting, audio equipment, and on-site network infrastructure for 50+ high-budget shoots, reducing technical downtime by 80% during location and studio productions viewed by over 100M total views.
- Appeared in 5 published videos as on-camera crew member, enhancing viewer connection and content authenticity.
- Stack: DSLR Cameras, Lighting Systems, Audio Equipment, Network Infrastructure.

Dining Operations Manager

Aug 2016 – May 2022

Brookdale Senior Living

Raleigh, NC

- Demonstrated elite work capacity by maintaining full-time management responsibilities while simultaneously working in media production (MrBeast) and completing B.S. degree with Magna Cum Laude honors.
- Oversaw daily dining operations for 100+ resident facility, leading team of 8 staff members while executing comprehensive closing duties including facility lockdown and security checks as keyholder.
- Conducted nightly financial audits cross-referencing meal tickets with resident census data, ensuring 100% billing accuracy and identifying discrepancies.

SELECTED PROJECTS

AIOManager

Jan 2026 – Present

- Built and shipped a production-grade Stremio account management platform as sole developer; grew to **103 GitHub stars and 19,300+ downloads in its first 30 days**, adopted as the community standard with an official Unraid deployment template and coverage in third-party setup guides.
- Engineered zero-knowledge encryption using Web Crypto API (AES-256-GCM, PBKDF2 600k iterations) with deterministic sub-key derivation, multi-key anti-lockout fallback, and session-only volatile key storage, ensuring the server stores only encrypted blobs it cannot read.
- Designed an Autopilot failover engine with infinite priority chaining, anti-flapping stabilization, and webhook notifications via Discord for 24/7 autonomous stream source redundancy.
- Shipped 25 production releases in ~5 weeks; architected for enterprise scale with PostgreSQL horizontal scaling, K8s health/readiness probes, stateless API design, and multi-arch Docker builds (amd64/arm64).
- Stack: TypeScript, Web Crypto API, Fastify, better-sqlite3, Docker Distroless, GitHub Actions, GHCR, Zustand, IndexedDB, React, Vite.

Self-Hosted Infrastructure Engineering

Sep 2024 – Present

- Migrated from Cloudflare Zero Trust to self-hosted authentication stack (Authelia + CrowdSec + Traefik), architecting enterprise-grade SSO with 2FA and real-time threat detection while maintaining zero open firewall ports via Cloudflare Tunnels.
- Performed root cause analysis on catastrophic system crash (Load Average 180, 9GB memory leak in Scrypted), developed Python TUI tool with real-time container health monitoring and automated memory limit injection across 38 Docker Compose files, preventing resource exhaustion by identifying Docker's silent failure to enforce Swarm-mode resource constraints in standalone mode.
- Built cross-platform management tooling including Windows Batch script with SSH orchestration for remote Docker operations, implementing synchronous command execution, ANSI terminal rendering, and state-aware offline detection for managing distributed containerized infrastructure.
- Diagnosed and resolved multi-layer proxy failures including HTTP 404 errors in Cloudflare Tunnel → Traefik → Docker architecture by identifying endpoint misconfiguration and HTTP 418 errors from CrowdSec/Traefik race conditions, implementing dual-entrypoint routing and startup synchronization to achieve 99.9% uptime.
- Architected multi-tenant database infrastructure managing 3 PostgreSQL and 4 Redis instances across microservices, implementing container-level isolation and persistent volume management for data integrity.
- Implemented centralized monitoring and observability stack using Beszel, Portainer, and Dozzle for real-time container health checks, resource utilization tracking, and log aggregation across 40+ services.
- Stack: Ubuntu LTS, Docker/Compose, Traefik, Authelia, CrowdSec, PostgreSQL, Redis, Cloudflare Tunnels/WAF, Tailscale, Watchtower, Beszel, Portainer, Scrypted, Home Assistant, Fastify, better-sqlite3, Web Crypto API, Self-hosted LLMs, Python, Bash, Windows Batch.

Full Stack Web Development & Client Projects

Dec 2025 – Present

- Delivered 3 production Next.js applications in one-month sprint achieving 100/100 Lighthouse scores: personal portfolio, entertainment brand platform (sonicx161.vercel.app with 1B+ views integration), and commercial travel booking site (Ceramoon Travel) serving real customer traffic in competitive Phuket tourism market.
- Engineered Node.js ETL pipeline transforming 500+ files into JSON through recursive traversal with idempotent scripts and SEO-optimized URL structures, implementing SSG strategy to pre-render 50+ pages achieving sub-1-second loads.
- Implemented i18n supporting 10+ languages (English, Russian, Chinese, Arabic, and more), integrated multi-gateway payments (PayPal, Stripe, WhatsApp Business API), and resolved critical infinite loop (GET /api/stats every 3ms) by migrating to server components.
- Stack: Next.js 14 (App Router), React 18, TypeScript, Node.js, Tailwind CSS, YouTube Data API, PayPal/Stripe APIs, react-google-translate, Vercel, GitHub Actions, SSG, ISR.

EDUCATION

North Carolina A&T State University

Sep 2017 – May 2021

Bachelor of Science in Information Technology, Magna Cum Laude

Greensboro, NC