MICHAEL A. SPRAGUE

Gary, IN 46408 | (219) 200-9431 | contact@michaelsprague.dev | michaelsprague.dev
github.com/Mic-Sp | linkedin.com/in/michael-sprague-it

TECHNICAL SUMMARY

Software Engineer and Applied AI Solutions Specialist with hands-on experience building full-stack TypeScript/Next.js web applications, hybrid quantum-classical workload simulators, and LLM evaluation pipelines. Combines rigorous RLHF code auditing (top 10% technical contractor) and Columbia University AI Solutions Engineering training with a systems-level background in hardware diagnostics, relational databases, and workflow automation. Proven track record of shipping production client deployments, maintaining a 3.98 GPA, and translating complex technical architectures into clean, reliable software.

TECHNICAL SKILLS

Python | SQL | TypeScript | Next.js | Node.js | REST APIs

SOFTWARE ENGINEERING & TECHNICAL EXPERIENCE

Software Engineering Apprentice | **Next Chapter** | *Sep 2026 – Dec 2026 (Expected)*

- Completed intensive full-stack software engineering apprenticeship curriculum, passing Phase 2 and Phase 3 technical evaluation gates across modern web architecture, algorithmic problem-solving, and production deployment workflows.
- Architected and shipped full-stack applications in TypeScript and Next.js, emphasizing clean state management, responsive UI/UX, and automated deployment pipelines.

AI Technical Specialist (Contract) | **DataAnnotation.tech** | *Jan 2026 – Present*

- Conducts root-cause code audits and Reinforcement Learning from Human Feedback (RLHF) evaluations to improve reasoning accuracy, security guardrails, and output reliability across frontier large language models (LLMs).
- Ranked in the top 10% of technical contractors based on evaluation precision, thorough technical documentation, and adherence to strict quality rubrics.

Independent Software & AI Solutions Consultant | **Self-Employed** | *2026 – Present*

- **Huddle & Heal Counseling & Consulting, LLC (huddleandhealcounselingandconsulting.com):** Designed, built, and launched the production web platform for a private counseling practice; configured Cloudflare DNS/SSL routing and automated deployment pipelines.
- **Custom Workflow & Receipt Automation:** Engineered an end-to-end automated tracking pipeline integrating Gmail filtering, Zapier webhooks, AI-driven JSON data extraction, and Google Sheets reporting.

Database & Systems Intern | **Holy Cross College / DePaul Academy** | *2023*

- Engineered custom relational Microsoft Access databases and VBA automation scripts to manage institutional hardware inventory, asset tracking, and service records.
- Improved tracking data integrity and significantly reduced administrative turnaround time for equipment maintenance and device offboarding.

Writing Center & Mathematics Tutor | **Holy Cross College** | *2021 – 2025*

- Translated complex quantitative, algorithmic, and technical writing concepts into clear, structured guidance for students across diverse technical backgrounds.

Clerical Assistant | **Oakland City University** | *2017 – 2020*

- Maintained relational institutional databases and developed automated documentation templates that reduced manual processing time for administrative staff requests.

FEATURED ENGINEERING PROJECTS

- **Interactive 3D Developer Portfolio (michaelsprague.dev | Next.js, TypeScript):** Built and deployed an interactive spatial developer portfolio and CLI-inspired command interface hosted on Vercel with custom Cloudflare DNS and email routing.

- **Q-Split — Hybrid Quantum-Classical Workload Simulator (github.com/Mic-Sp/Q-Split, v1.1.0):** Developed and published an open-source simulator modeling hybrid quantum-classical task partitioning and resource trade-offs, incorporating state-of-the-art quantum algorithm evaluation workflows.
- **Backlog Buster — Full-Stack Game Backlog Manager (backlog-buster-chi.vercel.app, v1.1.0):** Architected and released a full-stack game library and backlog prioritization web application built with Next.js and TypeScript.
- **PwndPass — Password Breach & Strength Analyzer (mic-sp.github.io/PwndPass):** Built and deployed a client-side security utility enabling users to evaluate password entropy and check credentials safely against known breach datasets.
- **Vivi's Dream — AI Video Restoration Pipeline (Python):** Engineered a multi-stage AI upscaling and restoration pipeline to modernize legacy early-2000s FMV video assets while isolating model artifacting and VRAM memory bottlenecks.

EDUCATION & CERTIFICATIONS

Columbia University | **Pathways to Applied AI Solutions Engineering (PAISE) Certificate** | *Completed Nov 2026*

- Completed intensive applied AI engineering program and final assessment covering LLM orchestration, applied machine learning workflows, and enterprise AI solutions architecture.

Holy Cross College | **Bachelor of Arts in Business Administration** | *2024*

- GPA: 3.98 | Summa Cum Laude | Delta Epsilon Sigma Honor Society
- Capstone Project: The Economics of Quantum Computing — Analyzed infrastructure requirements, error-correction overhead, and commercial scalability of high-performance quantum architectures.

Oakland City University | **Associate of Arts / General Studies** | *Completed*

Certifications & Continuous Learning: Anthropic Claude Academy Certificates (2026) • Google Crash Course on Python (2026) • NVIDIA AI Infrastructure and Operations Fundamentals (2026) • Google IT Support Professional Certificate (2026) • CompTIA A+ (In Progress)