

Benjamin Johnston

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TECHNICAL SKILLS

Languages: Python, Ruby, JavaScript, TypeScript, D, C#, C, C++, SQL, x86 Assembly

Automation & Quality: Selenium, WebDriver, test architecture, CI/CD, Docker, structured evaluation, audit trails, failure recovery

Software Engineering: REST APIs, OAuth 2.0, SDK design, WebSockets, JSON Schema, LLM integration, Git, CMake, Linux

EXPERIENCE

AI Operations Engineer (Automation & Model Evaluation)

Nov 2025 – Jun 2026

Handshake — Contract

- Cut manual annotation and triage effort by 95% by building AutoHandshake!, a Ruby/JavaScript Selenium automation suite with UI-stall recovery, multi-tab orchestration, and full audit trails.
- Evaluated 4,000+ multimodal AI responses using rubric-based scoring for correctness and reasoning quality, holding the Handshake Model Validation 2 — Expert credential.
- Mentored contractors on platform workflows and rubric interpretation, raising evaluation consistency team-wide.

Expert Contributor

Dec 2025 – May 2026

Snorkel AI — Part-time Contract

- Engineered constraint-based training workflows for Claude and ChatGPT across 2 contracted projects targeting complex programming and logic reasoning tasks.
- Validated training-set integrity through Docker-based CI/CD, catching defects pre-release.

SELECTED PROJECTS

Selenium | D | github.com/cetio/selenium

- Authored the only maintained W3C-compliant Selenium WebDriver client for D (4,800+ lines), with typed APIs, driver auto-detection for 4 browsers, and full session lifecycle management.
- Published on the DUB package registry with Selenium Grid support; powers live data capture in the Insurgent companion system.

Intuit | D | github.com/cetio/intuit

- Authored the first native LLM SDK for D (8,400+ lines), mapping chat completions, structured output, SSE streaming, and tool calls onto typed D structures.
- Supports OpenAI, Claude, and Qwen with OpenAI-compatible routing for OpenRouter and local models, plus SIMD-accelerated embeddings.

Google-SDK | D | github.com/cetio/google-sdk

- Authored a minimal-boilerplate Google SDK for D covering 4 services (Drive, Docs, Sheets, Gmail) across 4,100+ lines, with 2 OAuth identity layers and a 5-category typed error taxonomy.
- Automated MIME detection and native Docs/Sheets export, built on a custom OAuth 2.0 library with PKCE, token caching, and revocation.

Insurgent: Client | D, JavaScript

- Solo-developed a 3-component companion system (8,400+ lines) rendering 10,000+ tiles, 5,000+ units, 2,000+ research trees, and 8,000+ images via WebSocket feeds in under a second.
- Combined Selenium-driven data capture with filesystem-cached match state, live dashboards, and authentication across all three components.

EDUCATION

Columbus State Community College

Expected Dec 2026

AAS, Software Development

FREELANCE EXPERIENCE

Freelance Software Engineer

Independent client engagements

- Delivered SDKs, automation tooling, and API integrations for individual clients, including an AI-assisted grading platform with LMS OAuth that reached ~95% grading accuracy and cut instructor workload in half.
- Eliminated a user-mode virtual-input layer from a device-integration pipeline, reducing its overhead by 100%.