

Benjamin Johnston

Software Engineer — Systems & Automation

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SUMMARY

Systems engineer with 4 years of hands-on development experience specializing in workflow automation, SDK design, and low-level systems programming. Proven track record of reducing manual processes by 95% through browser automation and building production-grade libraries across D, C, and C#. Deep expertise in reverse engineering, API integration, and cross-platform tooling.

TECHNICAL SKILLS

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

Systems & Low-Level: SIMD/AVX, JIT Compilation, Metaprogramming, Reverse Engineering, CoreCLR Internals, Windows Internals

Automation: Selenium, WebDriver, Browser Automation, RPA

Integration: OAuth, REST, JSON, HTTP, WebSocket, LLM APIs, GTK4

Platforms: Windows, Linux (Fedora/Arch), Embedded Linux

Tooling: Git, CI/CD, GDB, CMake, IDA Pro, Ghidra, Intel VTune

EXPERIENCE

AI Trainer — Handshake (Contract)

Nov 2025 – Present

- Developed AutoHandshake!, a Selenium automation suite that eliminated 95% of manual annotation work across 400+ contractor hours of proven runtime.
- Train and evaluate multimodal AI agents to improve response quality, reasoning, and cross-domain understanding.
- Earned Handshake's Model Validation 2 — Expert credential for platform operations and guideline expertise.

Search Quality Evaluator — RWS Group (Contract)

Apr 2025 – Aug 2025

- Evaluated search relevance and LLM response quality across Google query simulations and third-party models to improve result quality and UX.

Freelance Software Engineer — Individual Clients

Jul 2021 – Present

- Built SDKs and tooling for device I/O and web API integration for individual clients, enabling real-time control and data synchronization across hardware and web interfaces.
- Designed an AI-assisted grading platform with LMS OAuth integration, achieving ~95% accuracy in real-world classroom use.

FEATURED PROJECTS

AutoHandshake! — Ruby, JavaScript

2026

- Unattended Selenium automation with failure recovery, multi-tab coordination, and full audit trails. Proven across Windows, macOS, and Linux.

Google-SDK — D

2026

- Production-ready Google Drive SDK with OAuth, file system operations, identity management, and automatic token refresh.

Selenium-SDK — D

2026

- Forked and modernized a 2018 JsonWire library to full W3C WebDriver compliance with strongly typed D APIs and auto-detection of major browser drivers.

Insurgent — D, JavaScript

2026

- Full-stack companion client for an RTS game with Selenium Chrome integration, live dashboards, and WebSocket real-time data feeds. Solo-developed under ecosystem terms.

Intuit — D

2026

- LLM integration library replacing fragile JSON shims with strongly typed native structures. Chat completions with streaming, batch embeddings, and tool usage.

Chemica — D, GTK4, Cairo

2026

- GTK desktop application with interactive 3D molecular visualization, multi-source data pipelines, and a local AI synthesis layer.

EDUCATION

Columbus State Community College

Expected Dec 2026

AAS — Software Development

CERTIFICATIONS

Microsoft Azure AI Essentials · MS Generative AI · MS Security Essentials · MS Software Development · PMI Career Essentials in GitHub · Handshake Model Validation 2 — Expert