

Nicholas Mastracola

Software Developer & Systems Specialist · Utah, USA

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Technical professional with six years of client-facing implementation and automation experience (Node.js, SQL, API integration, browser automation) in EdTech, now applying the same problem-solving approach to inventory and operations systems in manufacturing while completing a B.S. in Computer Science. Comfortable moving between technical and operational domains — from reverse-engineering undocumented APIs to owning inventory accuracy for a 700+ employee facility.

EXPERIENCE

Parts Room Attendant · Tyson Foods

2025-07 — Present

Utah

- Joined in production roles (Machine Operator; Pre-Trim/Whizzard operator) before moving into Parts Room Attendant in March 2026; LOTO (Lockout/Tagout) certified
- Manage inventory across 4,000+ SAP material records supporting maintenance and production operations across ~15 production lines in a 700+ employee facility
- Analyzed cycle count compliance and inventory accuracy issues; redesigned count scheduling and review processes in collaboration with planners and supervisors
- Used SAP transaction data, Excel, and Power Query to analyze consumption trends, supplier lead times, and critical spare availability, supporting purchasing and shutdown-planning decisions
- Defined requirements and evaluated Microsoft 365 tooling for a digital maintenance parts-request workflow, replacing an ad hoc manual process
- Architected and built a centralized storeroom knowledge base covering procedures, vendor information, and SAP reference material for training and knowledge retention
- Built a proof-of-concept Power BI dashboard for inventory metrics

Implementation Consultant · Instructure

2018-11 — 2025-01

Remote

- Delivered LMS/Canvas migration projects for higher-ed and K-12 clients over six years, functioning as de facto technical lead across 5–10 concurrent migrations (peak 10–15)
- Became the team's specialist for undocumented-API migrations — reverse-engineered access to export data from 20+ Blackboard, Schoology, and PowerSchool clients
- Rebuilt and owned an internal Node.js/Postgres video migration tool for Canvas Studio, adding session-refresh handling and an auditable migration record; ownership required formal handoff upon departure
- Directly influenced shipped Canvas Studio product decisions through ongoing collaboration with the Studio Product Manager
- Wrote custom Node.js, SQL, and shell scripts, and used Puppeteer browser automation, to meet client-specific migration requirements without vendor API support

EDUCATION

B.S. Computer Science (in progress)

2025-09 — Present

Southern New Hampshire University

Cumulative GPA: 3.666. 50 of 120 credits completed.

SKILLS

Languages: JavaScript (Node.js), Python, SQL

Automation & Integration: Puppeteer browser automation, REST API integration, Reverse-engineered auth/session-based data access, FFmpeg

Systems & Infrastructure: Linux, Docker, Proxmox virtualization, Git, Networking (VLANs, reverse proxy, PKI/TLS)

Business & Operations Systems: SAP (Materials Management), Power Query, Power BI, Excel, SharePoint, Salesforce, Jira/Confluence