

Michael Braicu

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[Website](#)

Professional Summary

My technical expertise centers on systems operation, network configuration, and automation scripting using Bash, Go, Java, SQL, and Google Apps Script, with deep experience in distributed environment platforms (Proxmox VE, TrueNAS, OPNsense). I have built full-stack automation pipelines and telemetry dashboards, authored many technical playbooks and standard operating procedures (SOPs). I am a mentor and coach/facilitator, leading numerous educational sessions and technical seminars. My background is grounded in resolving complex Unix/Linux hardware and software failures, aligning with reliability and systems engineering standards.

Core Skills

- **Languages & Scripts:** Go (Golang), Java, Bash, Python, SQL, JavaScript, HTML, CSS.
 - **Full-Stack & Platforms:** Spanner, Docker, Docker Compose, Proxmox, Google Cloud Run, Svelte/Sapper.
 - **CI/CD & DevOps:** Gitea Actions, Git, Cloud IDEs, Version Control Systems (VCS), Code Review Systems, Technical Documentation Portals (Hugo/Markdown), Build Systems (Bazel), CI/CD Automation.
 - **Systems & Networks:** Linux/Unix Administration, OPNsense, Reverse Proxy DNS (Pi-hole), Nginx Proxy Manager, Cloudflare.
 - **Observability & AI:** Prompt Engineering, Agentic Tooling models.
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Work Experience

Special Projects Lead - Tech Operations

Google / September 2024 - Present / Charleston, SC

- **Technical Incidents & Escalation Analysis:** Resolve technical incidents and escalations by performing analysis utilizing existing data models or leveraging

custom-built data infrastructure to formulate next steps to reach conclusions, such as troubleshooting complex platform failures.

- **Operational Analysis:** Develop detailed reports, data pipelines, and multiple dashboards to communicate key insights for data-driven analysis, including managing the Site Health Dashboard and automating alerts and reporting processes.
- **Code-Level Resolution & Tooling:** Resolutions for complex issues by leveraging tool development and scripting, including migrating core incident tools to Go command-line utilities and resolving root-cause bugs in global connection sessions.
- **Workflow Automation Solutions:** Identify opportunities to build or enable solutions that improve, support, or empower team operations, such as designing and scripting a web-based PTO and Overtime Management scheduling application.
- **Mentorship & Technical Coaching:** Foster team growth and professional development by leading training courses, facilitating technical study sessions, and providing 1-on-1 coaching as an official corporate mentor, and served as a primary author on multiple technical training resources.
- **Operational Visualization & GCP Integration:** Developed an HTML/SVG-based operational boundary visualization platform, creating custom Google Cloud Platform (GCP) projects and uploading facility layouts to help teams track operational zones.
- **Technical Documentation:** Authored and maintained critical site-wide documentation, playbooks, and standard operating procedures (SOPs), consolidating technical procedures to standardize execution processes.
- **Project Coordination:** Audited long-standing task queue blockages and built standard tracking sheets to assist building leads, managed weekend staffing assignment workflows, and coordinated weekly status snapshots for operations reviews.

Operations Engineer / Infrastructure Technician

Google | July 2023 – September 2024 | Charleston, SC

- **API Integration Scripts:** Wrote a command-line location tool integrated with internal inventory and location-tracking APIs, enabling active field engineers to query and identify server locations.
- **Technical Documentation Strategy:** Created troubleshooting and diagnostic guides that became the official training reference for the introductory systems diagnostic course, upskilling peer trainees via internal mentoring circles.
- **Feature Integration Proposals:** Drafted and presented feature requirement requests to the global operations advisory board to enable partial repairs in host provisioning systems, solving database transaction blockers across multiple regions.
- **System Daemon Debugging & Patching:** Root-caused proprietary server node reboot failures during system burn-in, posting a terminal hotfix that resolved

blocked machines across multiple sites and led to a global systemd configuration patch.

- **Telemetry Dashboards:** Setup daily business intelligence dashboard reports pulling weekly engineer output metrics to track site resource allocation and backlogs.
- **Incident Tracking Frameworks:** Launched a dedicated security incident tracking framework, reducing data-security incident resolution cycles and building ticket tracking workflow components.
- **Critical Incident Troubleshooting:** Handled urgent hardware and networking escalations (VLAN switches, remote management unit NIC timeouts, MAC address configuration issues in host provisioning systems) to maintain system SLOs.
- **Shell Scripting Automation:** Developed and deployed custom utility scripts to automate local environment setups, handle diagnostic commands, and organize system profile aliases for engineering teams.

Datacenter Operations Engineering Lead - Twitter Inc.

Twitter Inc. / March 2015 - September 2017 / Atlanta, GA

- **Site Uptime Leadership:** Provided on-site and remote on-call support for multiple regional data centers and points of presence (POPs) across Sacramento, Santa Clara, and Atlanta, consistently exceeding service SLO targets.
- **Infrastructure Project Management:** Managed lifecycle schedules for site maintenance projects, including software upgrades, switch deployments, decommissioning runs, and hardware repairs.
- **Cross-Functional SRE Support:** Collaborated with network engineering and site reliability teams to triage local network outages and server failures, restoring high-availability services.
- **Team Leadership:** Supervised, hired, onboarded, and trained a dedicated site engineering team, coordinating work schedules and career development profiles.
- **Technical Ambassadorship:** Represented the company as a technical liaison at industry conferences and events, reporting back to stakeholders on emerging infrastructure technologies.

Operations Technician

Google (via Adecco Group) / November 2012 - March 2015 / Lithia Springs, GA

- **Datacenter Operations & Repairs:** Executed over 11,000 maintenance and component swap actions across thousands of unique server systems, maintaining an 89% hardware intervention completion rate.
- **Daily Swaps Record:** Achieved a site-wide operational record for the highest volume of server swaps completed during a single 12-hour shift (over 200 swaps).

- **Security Storage Sanitization Project:** Sanitized and destroyed thousands of decommissioned solid-state drives (SSDs) and hard-drive backlogs, successfully clearing historical data security queues in compliance with strict compliance standards.
 - **Tape Library Migrations:** Led large-scale data retention transition workflows, migrating tens of thousands of archive tapes between storage libraries while troubleshooting and resolving hardware drive failures.
 - **New Product Introduction (NPI) Hardware Qualification:** Partnered with hardware testing engineers to validate and qualify network switch frameworks, testing high-performance line card interfaces and optical cabling platforms.
 - **Automated Materials Handling Pilot:** Acted as primary operator and workflow subject for the operations deployment guide of custom datacenter logistics platforms.
 - **Fiber Infrastructure Optimization:** Resolved connection trace failures in high-density fiber-optic distribution frames and consolidated inventory under a large-scale sorting audit.
 - **Technical Onboarding & Training:** Onboarded and mentored dozens of contract workers and team members on platform upgrades, hardware diagnostics, and operational workflows, boosting overall team velocity.
 - **Deployments and Decommissioning:** Decommissioned network switches and fiber runs, participated in decommissioning server clusters, including containerized mobile data center modules.
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Technical Projects

[Git Repository](#)

Homelab Infrastructure & Automation

- **Infrastructure as Code (IaC):** Automated reverse proxy and custom DNS record allocation in a home server setup by scripting sidecar daemons (`npm-sync` and `pihole-dns-shim`) that read Docker socket events and execute API modifications natively via YAML labels.
- **Self-Hosted AI & Developer Stack:** Served Gemma model backends via Ollama on a custom local compute host, integrating them with code-server environments via automated Model Context Protocol (MCP) shell execution triggers.
- **Hypervisor Virtualization:** Unified a multi-node cluster employing Proxmox VE (Debian) hypervisors and a TrueNAS ZFS RAIDZ2 pool over a high-speed network backbone.
- **Docker Container Orchestration:** Managed, deployed, and supported **50+ containerized services and game servers** (including Gitea, Pterodactyl, and local database managers) on a Docker host VM, using automated socket-sync configurations to manage routing and DNS.

Hugo static documentation Pipeline

- **Frontend Vendor Decoupling:** Vendored the Blowfish style layout system directly into the root repository, eliminating third-party Git submodules to protect the site framework against upstream breaking updates.
- **Module Mount Mapping:** Mapped absolute paths outside local Hugo workspace scopes using configs virtual mounts, allowing custom layout include shortcodes to read raw server files.
- **Build Automation CI/CD:** Programmed Gitea Actions deployment pipelines to run minification builds and deploy bundles to Dockerized Web Nginx web volume endpoints.

MeowTab MIDI Editor (REAPER DAW Extension)

- **DAW Lua Interface:** Engineered a visual guitar fretboard editor as a REAPER DAW extension using ReaImGui to allow real-time note insertion directly from a visual canvas.
- **Dual-Layer MIDI Sync:** Programmed a MIDI translation layer mapping REAPER Text Events for visual tablature representation with MIDI note properties for synth playback.
- **Headless Test Environment:** Constructed a headless testing sandbox using Docker and Busted Lua packages to run Test-Driven Development (TDD) coverage over fretboard-to-MIDI calculation models.

Guitar Tab Downloader

- **Go & TypeScript Pagination loops:** Developed a CLI tool in Go and TypeScript that overrides typical Web limits to fetch and download all artist tabs from Songsterr networks.
- **Index Selection Logic:** Created a custom range query engine.

Web-to-Markdown Scraper

- **Readability Stripper:** Wrote a command-line Go tool utilizing `go-readability` filters to parse html articles and discard noisy sidebars, ads, and footers.
 - **Concurrent Downloader:** Designed a concurrent asset downloading script using native Goroutines and channels to extract and download inline images in parallel.
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Education

- **Georgia State University | Clarkston, GA**
Computer Science, 2012–2017
 - **Pennridge R.C. High School | Perkasie, PA**
High School, 2004–2009
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Certifications

- Google: AI for Data Analysis (Issued Jun 2026)
- Google: Maximize Productivity With AI Tools (Issued Jun 2026)
- Google: AI for Writing and Communicating (Issued Jun 2026)
- Google: Introduction to AI (Issued Jun 2026)
- LPIC-1: Linux Professional Institute (Feb 2014–Feb 2019)
- SUSE Certified Linux Administrator (SUSE CLA) (Feb 2014–Feb 2019)