

JOHNSON BOLHAYON

Data Specialist | Spreadsheet Expert | Data Automation Engineer | Web Application Developer
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PROFILE

Data automation and migration specialist with 9+ years of experience turning repetitive, high-volume data work into automated systems. Started as a spreadsheet expert in advanced Excel and VBA, and now design, build, and operate full-stack internal web applications with Next.js, TypeScript, and Supabase (PostgreSQL), deployed to Google Cloud and integrated with SaaS platforms such as Lightspeed, Xero, Jira, Freshdesk, and Confluence through REST APIs. Owns the whole pipeline - extract, clean, validate, migrate - then builds the tools, dashboards, and integrations teams rely on afterward, with a verification-first approach where automated outputs are validated cell-for-cell against the reports they replace. Built on years of hand-written VBA, C#, and SQL ETL work that predates the AI boom, transitioned as an early adopter of AI-assisted engineering: uses Claude Code to deliver production software solo at a pace and scope that normally requires a team - every change spec-driven, reviewed, and verified like any other engineering work - and ships AI features into the product itself (Gemini-powered ticket summaries, knowledge-base suggestions, product categorisation). Known for reducing repetitive work by 70-90% and for bridging business workflows with technical solutions.

CORE SKILLS

- Spreadsheets (Expert):** Microsoft Excel - advanced formulas, VBA, pivot tables, Power Query, dashboards; Google Sheets
- Data and Analytics:** Data migration, data cleansing and validation, deduplication, reconciliation, QA testing, Power BI, dashboards
- Automation and Scripting:** Excel VBA, Google Apps Script, C# (LINQ), ETL pipelines, bulk data imports
- SQL and Databases:** SQL (MySQL, SQL Server/SSMS, Firebird), Snowflake, PostgreSQL - row-level security (RLS) and migration-managed schemas, Supabase, audit logging
- APIs and Integrations:** REST API integration, Google Sheets API, Google Drive API (service accounts), Lightspeed X-Series API, Xero API, Atlassian REST APIs (Jira, Confluence), Freshdesk API, Google Gemini API, webhooks, OAuth and scoped API tokens, HMAC request signing, rate-limit handling
- Platforms:** Google Workspace (Sheets, Drive, Apps Script), Lightspeed (POS), Xero, Jira, Confluence, Freshdesk, NetSuite, Vital
- Web Development:** Next.js 14 (App Router), React, TypeScript, JavaScript, Tailwind CSS, Node.js, NextAuth (Auth.js), Google OAuth, role-based access control (RBAC), Git, GitLab, Vercel
- Cloud and DevOps:** Google Cloud Platform (GCP) - Cloud Run, Cloud Build (CI/CD), Artifact Registry, Secret Manager, Cloud Scheduler; Docker, WSL2
- AI-Assisted Development:** Claude Code - spec-driven development and verification-first workflows; shipping AI product features with the Google Gemini API (structured-output summaries, AI-suggested knowledge-base docs, quota-guarded usage)

WORK EXPERIENCE

Poolwerx Corporation Pty Ltd | Australia (Remote)

Data and Inventory Transformation Specialist

Jun 2025 - Present

Flagship build: PWX Tool Trackers - internal franchise-operations platform, designed, built, and operated end-to-end as sole developer (AI-assisted with Claude Code)

- Shipped a production web platform used daily by the support team to manage product, inventory, and cost operations across 140+ franchises (AU/NZ/US) - Next.js 14, TypeScript, Tailwind CSS, Supabase (PostgreSQL) - deployed as a Docker container on Google Cloud Run behind a custom HTTPS domain, with Cloud Build deploys, GCP Secret Manager, and Cloud Scheduler jobs
- Security-first architecture: domain-restricted Google OAuth (NextAuth v5) with per-user approval and admin role-based access; default-deny Postgres row-level security with every read/write flowing through server-side API routes; per-store Lightspeed API tokens (~150 stores) held in GCP Secret Manager, never exposed to the browser or logs
- Full auditability: every write platform-wide is logged with before/after JSON snapshots, powering a filterable audit-log viewer with one-click undo/restore
- Wired Jira, Freshdesk, and Confluence into the platform: tasks, support tickets, and team documentation in one dashboard (read-only REST clients, per-user scoped API tokens in GCP Secret Manager), with Gemini AI suggesting the right knowledge-base article for each support ticket
- Replaced manual monthly reporting with automated Lightspeed POS API exports: a parallelised API walker generates 3 years of monthly sales, item-count, and product reports in minutes (previously dozens of manual downloads per store), writing paired Excel files into an auto-organised Google Drive folder tree - export engines verified cell-for-cell against the legacy reports they replace

- Built store-migration tools that clone a Lightspeed account's suppliers, price books, and full product catalog (variant families, composites, multi-SKU codes) onto a new account via the API - importing the data Lightspeed's own export drops, with every write shape probe-verified against the live system before shipping
- Backfill supplier details lost in store migrations by matching old and new accounts and filling only empty fields, so existing data is never overwritten
- Fix product categories across the whole network with a consensus vote: every franchise's catalog votes on the right category for a product, and Gemini AI (structured JSON output, quota-guarded) classifies whatever the network can't agree on
- Update a product's price across every franchise in one run, with each store re-verified live before any write - HMAC-signed scan receipts and dry-run-by-default pushes
- Replaced manual stock-take reporting with one-click exports to fully formatted Google Sheets via the Sheets API - one tab per outlet or product category with protected formula columns and a cross-tab summary
- Shipped a no-code tracker builder so anyone on the team can spin up their own shareable typed tables (metadata-driven storage, no runtime DDL) - roles and sharing, live summaries and quick filters, server-side automations, and one-click archiving to Google Sheets

Broader role

- Support and troubleshoot the Lightspeed-Xero-Vital trading terms integration, including diagnosing auth issues after Lightspeed's move from personal tokens to scoped application tokens
- Automated Lightspeed product catalogue management via the X-Series REST API, including bulk product category creation with deduplication and leaky-bucket rate-limit handling
- Rebuilt a 2,000-SKU product average-cost workbook with GP% calculations, validation rules, and exception highlighting; monitor SKUs, stock levels, and average cost across the network
- Built a COGS automation tool in Google Apps Script covering product list imports, SKU sales processing, monthly posting workflows with data freezing, register-to-outlet mapping, and journal exports to Xero
- Write ad hoc SQL queries in Snowflake for product, inventory, and reporting analysis; act as business-process SME supporting franchise partners via Freshdesk and email

Data Migration Executive

May 2024 - Jun 2025

- Performed end-to-end data processing (cleaning, validation, transformation, extraction) for migrations across tech stacks for 140+ franchise partners
- Built custom VBA macro tools to automate repetitive ETL processes, generate consolidated stakeholder reports, reconcile records, deduplicate entries, and flag errors based on logic rules
- Developed Google Apps Script tools for multi-sheet processing, API integration (pulling and pushing data to and from Sheets), automated status reports and email updates, and dynamic Drive file management
- Designed migration monitoring dashboards to track readiness and progress per franchise
- Ensured data accuracy, referential integrity, and system compatibility through rule-based validation and QA testing

Kreloses PLT (SaaS Platform) | Malaysia (Remote)

Data Analyst / Data Migration Specialist

Full-time Nov 2022 - May 2024; Part-time May 2024 - Jun 2025

- Restructured raw data from varied sources (free-form Excel, POS exports, SQL dumps) into import-ready formats matching the platform's schema
- Built C# (LINQ) tools to automate complex transformations and standardise records from large datasets
- Wrote SQL queries (MySQL, SSMS, Firebird) to filter, clean, and export relevant data for import
- Conducted post-migration QA against client expectations (record counts, format compliance) and liaised directly with clients to define goals and manage transitions from legacy systems

IQVIA | Philippines (Hybrid)

Data Analyst / Spreadsheet Specialist

Feb 2018 - Apr 2022

- Point of contact for the Product Reference Management (Middle East and Africa) team, leading weekly and monthly production meetings and coordinating with global teams
- Self-taught Excel VBA and built automation tools for QC, data input, and product processing, including an automated QC tool with role-based templates, a consumer health product tracker eliminating manual duplication, and a patent intelligence tool consolidating 60+ global pharmaceutical datasets
- Managed product migrations and imports into internal databases, preserving structure and classification integrity
- Received the IQVIA Impact Program Award for innovations improving data efficiency and quality control

Optum | Philippines (Onsite)

Pharmacy Benefits Analyst

Aug 2017 - Jan 2018

- Reviewed pharmacy benefit requests and gathered required data for accurate, timely implementation for US healthcare clients in a high-volume, deadline-driven environment

EDUCATION & LANGUAGES

Bachelor of Science in Pharmacy, Saint Louis University, 2016 | English (Fluent), Tagalog (Fluent)