

MATHIAS PAUL

FULL-STACK SOFTWARE ENGINEER | BUSINESS APPLICATIONS

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Software engineer with an M.S. in Computer Science and business operations experience since 2018. Connects real operating needs to business applications, commerce workflows, structured records, and human review. Recent work spans Shopify release controls, research-to-content handoffs, local data reliability, and voice-agent configuration.

SELECTED ENGINEERING WORK

Amadeus Apothecary | Commerce and growth systems

- Built a Shopify commerce system around a manufacturer-direct skincare product, connecting customized Dawn / Liquid templates, structured product knowledge, event instrumentation, and fulfillment constraints.
- Implemented release controls that bind source revision and theme digest to fresh QA, remote drift checks, verified backups, and a retained rollback theme. Recorded seven passing Node tests.
- Built a local SQLite operations ledger with transactional imports, source provenance, duplicate suppression, optimistic revision checks, and backup / export recovery; six ledger tests recorded passing.
- Implemented a file-based Social Intel-to-Content Engine adapter with cross-project rejection, stale-analysis exclusion, and SHA-256 idempotency to preserve evidence and prevent duplicate briefs.

Amadeus Prospect & Launch Studio | Product strategy and implementation

- Built research, approved packaging concepts, launch planning, inquiries, and proposal workflows using TypeScript, React, Cloudflare Workers, D1 / SQLite, and private R2. Tied approvals to saved specifications and limited recipient-facing fields.
- Configured Retell voice follow-up with AI identification, recording consent, email readback, opt-out handling, structured tool calls, and human escalation.

Meridian Operations Systems | Operational software project

- Designed a Python / PySide6 workflow for packing-slip intake, customer evidence, and physical returns. Kept schema-constrained AI extraction provisional until deterministic checks and operator approval.
- Stored approved records in SQLite before retryable Google Sheets synchronization. The workflow acceptance record documents 71 passing automated tests and three accepted physical workflows at one Windows station.

TECHNICAL TOOLKIT

Python · JavaScript / TypeScript · React · React Native / Expo · Node.js · SQLite · Cloudflare Workers / D1 / R2 · Shopify / Liquid · Retell · structured AI extraction · API and tool schemas · validation · browser QA · Git / CI · release controls · backup and recovery

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Experience, additional projects, and education

PROFESSIONAL EXPERIENCE

Meridian Trade | Operations Lead | April 2018-Present

- Perform business operations across Amazon FBM and FBA, supplier relationships, bidding, fulfillment, planning, finances, and the technology stack.
- Translate recurring operational problems into software requirements, review steps, and acceptance criteria; connect customer-facing websites with service presentation and inquiry workflows.

Crown Cars | Operations Lead | 2011-August 2025

- Progressed from driving during college to work across business operations and support for owner decisions. Business closed in August 2025.

Science Teaching | 2016 and 2018

Sonoran Trails Middle School, Arizona (2016); St. Cletus Catholic School, Illinois (2018). Taught seventh-grade science across geology, astronomy, biology, and physics, with subject coverage varying by school.

ADDITIONAL SOFTWARE PROJECTS

GRAVITY | Local-first planning application

- Built a task-planning workflow with TypeScript, React Native / Expo, and SQLite: capture, clarification, task eligibility, ranking, scheduling, and focus. Designed persistence and recovery safeguards.

FlowState | Creator operations application

- Designed a local-first content workflow that separates ideas, production, publication, signals, and review. Implemented state transitions and backup / restore behavior.

EDUCATION

Lewis University | M.S. Computer Science

Software Engineering concentration | August 2024 | GPA 3.8

Selected coursework: algorithms and data structures, database systems, operating systems, artificial intelligence, software architecture, software testing and quality.

National Louis University | M.A. Teaching

Secondary Education | June 2016

Arizona State University | Bachelor of Interdisciplinary Studies

2014

WORKING APPROACH

Define the operating problem, design the workflow, implement and review the software, test failure paths, and document the engineering decisions.