

MATTHEW PURNELL

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SUMMARY

Software Engineer with 6 years in Python, specifically Django and Odoo. Led four major platform migrations across accounting and e-commerce, and specialize in dependency management, CI, and test coverage. Looking for a small-to-mid-sized engineering team where reliability and maintainability are valued.

EXPERIENCE

Lead Developer | *Simplified Computers* | *Champaign, IL* *Aug 2025 – Present*

- *Technology used:* Python, JavaScript (OWL), SQL, Odoo 18/19, unittest, PostgreSQL, Docker, GitHub Actions, CodeCov, Sentry, Odoo.sh, Cloudpepper, Vultr, Flxpoint, Claude Code, Sentry MCP, Atlassian MCP
- Led Odoo 18→19 migration across 71 modules with enterprise/community reconciliation, completed Feb 2026.
- Piloted Claude Code via the Sentry Odoo 19 upgrade, extending the Python-only OCA module with JS Loader injection and session replay: 70+ AI-assisted merged commits in 2 months.
- Overhauled GitHub Actions CI with aggressive caching, inline PR coverage feedback, and parallelized test jobs.
- Shipped a Flxpoint reporting model and dashboard from scratch: 1,550 cron reports aggregated in 2 months across 199K products fetched, 262K linked, 528K stock updates, and 342K image updates.

Purchasing Coordinator | *Simplified Computers* | *Champaign, IL* *Aug 2024 – Aug 2025*

- *Technology used:* Python, JavaScript (OWL), SQL, Odoo 17/18, unittest, PostgreSQL, Docker, GitHub Actions, Odoo.sh, Cloudpepper, Vultr, Flxpoint, Icecat/Etilize
- Designed a shop-floor MRP customization propagating sale → manufacturing → work-order notes. Adopted on 984 of 2,408 MOs (41%).
- Migrated Odoo 17→18 across 23 modules solo, including Payment Transaction and Stripe upgrades.
- Integrated Icecat/Etilize product enrichment, populating 69K+ products with marketing text and exporting 28,866 PDFs as downloadable product attachments.
- Authored custom Odoo modules: a product merge wizard, a stock-aware POS combo preselector, and a stock-rule try-next fallback for Flxpoint dropshipping.
- Managed inventory across the retail storefront and repair operations, supplied the Illinois Department of Human Services' Division of Rehabilitation Services with custom laptop, printer, and accessory bundles for students with disabilities, and grew the company's vendor and distributor network.
- Lead contributor on Flxpoint listing-variants sync, tracking 108K+ listing variants and linking 589K+ product variants.

Software Developer | *FarmAfield* | *Remote* *Sep 2021 – Aug 2024 (+ consulting Feb 2025)*

- *Technology used:* Python, Django, HTML/CSS, SQL, PostgreSQL, pytest, Selenium, Docker, Poetry, CircleCI, GitHub Actions, CodeCov, CapRover, Google Sheets, QuickBooks, ACH banking
- Designed the transaction-generation layer of FarmAfield's accounting atop double-entry primitives, translating business events into journal entries across 18 transaction types. Generated 42,000+ transactions totaling \$63M+ over 4 years.
- Built the Chart of Accounts and annual 1099-MISC tax system, deployed across 6 tax years, 45 TINs encrypted at rest.
- Led the code-quality initiative: 12+ modules to 100% coverage, surfacing numerous latent bugs.
- Owned every major platform upgrade (Python 3.7→3.10, Django 3.2→4.1) with no user-facing disruption.
- Enhanced the ACH pipeline, supporting \$12.1M across 4,000+ transactions and 1,000+ NACHA files.

Software Development Intern | *FarmAfield* | *Remote* *May 2020 – Aug 2021*

- Shipped the COVID-era CFAP relief adjustment system end-to-end: customer-facing form, transaction engine, profit-sharing logic, and admin interface. \$150K paid across 685 investor credits to 66 accounts, zero manual intervention.
- Overhauled admin deposit system into a multi-source pipeline, processing \$1M+ across 66 admin-originated entries.

EDUCATION

Parkland Community College | *Associate of Science in Computer Science* | *Champaign, IL*

Aug 2021