

Jonathan Xu

Los Angeles, CA · +1 (951) 907-3668 · jxucoding@gmail.com

SUMMARY

Engineering lead for backend, integrations, and reliability on a **\$380M-run-rate** specialty goods business (ERPNext, AWS, Azure). Lead a five-person team across backend, integrations, and BI. Scaled the platform through **119% revenue growth** on the same stack with no added headcount. Picked up the **Standard Costing** rollout after prior attempts stalled; it now spans engineering, finance, accounting, and 7 facilities on 3 continents.

EXPERIENCE

Lead Software Engineer · Ultra Pro International *March 2023 – Present*

- Lead engineer for the ERPNext platform processing **\$356M trailing-12-month revenue, 186k+ B2B/DTC orders**, and 1,100+ wholesale accounts across 12+ sales channels (Shopify, Amazon, Target Plus, EDI to Walmart / GameStop / Dollar General / Kroger, others). Lead a 5-person team across backend, integrations, and BI.
- Scaled throughput from 131k orders / \$134M revenue (2023) to 190k orders / \$294M revenue (2025): **119% revenue growth** on the same Frappe/ERPNext stack with no engineering headcount increase.
- **Selected to lead** the multi-year Standard Costing rollout (manufacturing, warehousing, finance, accounting). Own the monthly architecture review, the internal engineering newsletter, and operations demos for warehouse and logistics simplification.
- Designed and shipped the Cleo EDI bridge as the primary retail-partner channel, ingesting POs from 6 partners (Walmart, GameStop, Dollar General, Fred Meyer, Kroger, Pure Hockey). Killed SPS Commerce's per-transaction fee model that was eating margin on Walmart volume: **mid-six-figure annual savings**.
- Built Target Plus direct API integration end-to-end (items, orders, fulfillment, reporting); drove 30-day certification to **60/60 passing scenarios**.
- Drove company-side recovery of an 8-month Amazon SP-API degradation, leading migration to Amazon's Solution Provider Portal and unblocking **~\$500k/month in stalled marketplace throughput**.
- Owned production reliability: chunked unbounded IN-clause queries to **eliminate 25-minute worker timeouts** on the SKU sales-register report against a 6 TB MariaDB; resolved a **50-deadlock-in-2-weeks gap-lock cycle** (peak 15/day) with retry-on-rebuild and removal of 6 redundant mid-hook commits; authored root-cause analysis on tabSeries lock contention (32.6% of lock time across 860k UPDATES) with a sharding proposal projecting 80–90% lock-wait reduction.
- Designed the automated ERP Health Check: Lambda + EventBridge + **Amazon Bedrock (Claude Sonnet 4.6)** pipeline parallelizing 6 data collectors into narrative production analysis. Runs daily/weekly at ~\$4.40/month, ~90s runtime, 70+ unit tests.
- Drove infrastructure and security posture with Caylent: VPC migration toward **PCI-DSS 4.0 / SOC 2** (dual-AZ, ALB + WAF, SSM-only bastion), Terraform for production security-group changes, **Azure Entra ID SAML SSO**, **Microsoft Graph** automation for Teams + M365 provisioning, **Azure DevOps Pipelines** for non-AWS deploys, and a role-gated SQL surface (BI Query Desk) replacing per-analyst tooling.

Software Engineer · Roots of Progress Institute *October 2020 – October 2022*

Full-stack development on Forum Magnum (TypeScript OSS forum platform). Scaled the Progress Forum from ~20 to ~10k monthly visitors through performance and infrastructure work.

Full-Stack Software Engineer · GHC Blue Cross *June 2019 – August 2020*

Built database tooling for healthcare information systems on Kubernetes/AWS. Automated HIPAA/HITECH compliance protocols for PHI handling.

Earlier: Software Engineer Intern, NASA Jet Propulsion Laboratory, 2015 (VR orbital visualization).

EDUCATION

B.S. Computer Science, UC Riverside, 2018

SKILLS

Languages: Python, TypeScript, JavaScript, SQL, Bash

Backend: Frappe / ERPNext, MariaDB, MySQL, REST APIs

AWS: Lambda, EventBridge, Bedrock, RDS / Aurora, S3, SSM, Secrets Manager, IAM, CloudFormation, ALB, WAF, Terraform

Azure: Entra ID / SAML SSO, Azure DevOps / Pipelines, Microsoft Graph, Teams API, Microsoft 365

AI / LLM: Amazon Bedrock, Anthropic Claude API, prompt engineering, agentic tooling

Integrations: EDI X12, Amazon SP-API, Shopify, SAML 2.0 / SSO

Reliability: Performance tuning, lock contention analysis, observability, CI/CD, deploy automation