

# Yuwei Liang

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## Summary

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Software engineer with **10+** years shipping production e-commerce and marketplace systems at scale. Deep experience in **backend services, distributed systems, payments, billing, and full-stack web**; day-to-day user of AI-native development workflows (agentic coding, LLM tooling). Currently engineering marketplace billing at **Cart.com**.

## Experience

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### Cart.com — ShopHouzz Marketplace

Feb 2026 – Present

*Software Engineer, Billing & Accounting*

*Remote*

- **Vendor Payouts:** Single-handedly designed, built, and shipped the ShopHouzz vendor payout system end-to-end in a matter of weeks, processing **millions of dollars** in vendor disbursements shortly after launch.
- **Returns:** Leading design and implementation of the ShopHouzz return system covering refund flows, financial reconciliation, and vendor-side workflows.
- **Vendor Banking:** Designed the ShopHouzz vendor banking service (AWS Lambda + DynamoDB + Plaid) for onboarding and ACH flows; live in dev as of Apr 2026.
- **Vendor Integration Reliability:** Lead responder for the SPS Commerce EDI pipeline processing **1,000+** files daily across **200+** vendors — diagnosing data, mapping, and reliability issues to keep partner integrations running.
- **Test Automation:** Built the team's E2E automation program from zero — Playwright UI suite plus pytest API and SFTP coverage on sharded GitHub Actions CI with Slack-routed alerts — establishing the deployment-confidence bar across vendor-portal and billing services.
- **Observability & On-Call:** Built **pricing** and **846 EDI** monitoring dashboards (Terraform-provisioned, Datadog) for billing and vendor-integration services running on Docker; carries on-call rotation for these surfaces.

### Houzz, Inc. — Marketplace

2018 – Feb 2026

*Full Stack Software Engineer*

*Los Angeles, CA*

- **Checkout & Payments:** Re-architected order-creation workflow, cutting API response time by **90%**. Integrated Apple Pay Express Checkout for mobile web, contributing to a **20%+ GMV lift** on that checkout surface.
- **Billing & Accounting:** Built TIN/EIN tax-compliance system integrated with NetSuite, helping **3,000+** partners avoid IRS penalties. Recovered tens of thousands in overpaid sales tax via a comprehensive Avalara API integration.
- **Payment Terms:** Led multi-term payment system that reduced engineering involvement in net-term setup by **80%**; shipped a 2% quick-pay incentive generating meaningful contribution margin.
- **Product Ads:** Diagnosed and fixed a critical Google Ads conversion-tracking bug, improving ROI measurement accuracy by **35%** and unblocking data-driven campaign optimization.
- **Supplier BI:** Led engineering of supplier-insight reporting platform serving **1,000+** active vendors with sales, inventory, and ads analytics.
- Recognized in performance reviews as the go-to domain expert for marketplace accounting; mentored junior engineers across teams.

- Led development of *Mobilecom*, a SaaS mobile-first storefront for IBM WebSphere Commerce; client deployments saw mobile conversion-rate improvements of ~**25%**.
- Optimized React/Redux app performance, reducing load time by **35%** and improving customer engagement metrics across client sites.

## Technical Skills

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**Languages:** Java, Python, JavaScript/TypeScript, PHP, SQL

**Backend:** REST/GraphQL APIs, microservices, distributed systems, event-driven architectures, query optimization, Node.js

**Frontend:** React, Redux, HTML5, CSS3, responsive web

**Data & Storage:** MySQL, Postgres, Snowflake, Redis, DynamoDB, Elasticsearch, Solr, data pipelines

**Cloud & DevOps:** AWS (Lambda, DynamoDB, S3, API Gateway), Kubernetes, Docker, Terraform, CI/CD, Git

**Observability:** Datadog, Grafana, time-series dashboards, on-call rotation

**Integrations:** NetSuite, Avalara/AvaTax, Stripe, Plaid, Apple Pay, Google Ads

**AI & Developer Tooling:** Claude Code, agentic development workflows, LLM-assisted code review, MCP servers

## Education

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**M.S., Software Engineering** University of California, Irvine 2015

**B.S., Information Security** Beijing University of Posts and Telecommunications 2013