

Aaron Chai

FULL-STACK DEVELOPER

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SUMMARY

Full-stack developer (React/TypeScript, Node.js, Python) delivering scalable, observable systems end-to-end, from serverless API gateways and CI/CD pipelines to Shopify storefronts spanning **2,600+ SKUs**, with a **+50%** online sales lift and hands-on LLM/GenAI API and agentic tooling (Claude Code, MCP). Georgia Tech MSCS candidate (Expected 2027).

EXPERIENCE

Beauty 21 Cosmetics Inc. (L.A. Girl / L.A. Colors) - Full Stack Developer Ontario, CA · Sep 2024 - Present

- Architect and maintain the PRO Points loyalty program end-to-end (React/TypeScript, Node.js/Express, PostgreSQL) across two storefronts (637 products, 2,600+ SKUs, 10,000+ customers per brand), implementing idempotent earn/redeem transaction handling and delivering a **+50%** online sales lift in the 6 months post-launch.
- Design and deploy a Node.js/TypeScript serverless API gateway (Vercel, JWT/CORS, Joi, rate limiting, circuit breaker, retry/backoff, Redis TTL caching, Prometheus), reducing Stamped.io API error rate 40% and cutting p95 latency from 800ms to under 200ms.
- Ship a Shopify OS 2.0 design system of 40+ modular Liquid/Tailwind/Web Components sections across 2 storefronts, migrating an 80-template codebase into the component library and cutting code duplication **60%** and deploy-cycle time 45%.
- Apply WCAG 2.1 AA contrast and keyboard-navigation standards across all 40+ storefront sections, resolving 120+ accessibility violations and achieving zero compliance-related escalations across both L.A. Girl and L.A. Colors brands since launch.
- Engineer a Python/pandas PIM pipeline normalizing 10,000+ product attributes across 2 source systems with header-diff comparison and idempotent upserts, surfaced in a Next.js review dashboard, eliminating 8 hrs/week of manual data-entry work (60% reduction).
- Deploy and maintain 6 automated customer lifecycle flows (Shopify Flow + async webhook consumers) integrating Klaviyo, Bazaarvoice, and Stamped.io across 2 storefronts via GraphQL Admin API, processing 1,200+ monthly event triggers with dead-letter handling and sustaining a +40% email repeat-purchase rate lift.
- Automate the daily Bazaarvoice-to-PowerReviews product-feed pipeline via GitHub Actions CI/CD with exponential-backoff retry, Jest TDD, and Slack failure alerting, cutting catalog sync lag from 24 hrs to under 1 hr and failure-detection lag from 4 hrs to under 5 minutes.
- Improve Core Web Vitals (LCP) on the L.A. Girl storefront 35% by diagnosing render-blocking third-party JS race conditions and implementing script-defer strategies, validated against Lighthouse scoring.
- Build reusable React component library and GraphQL data-fetching layer for the Locksmith-gated B2B distributor portal, enabling infinite-scroll catalog browsing, metaobject-driven product display, and quote-request wishlist across 120+ distributor accounts.
- Establish a branch-per-environment GitHub-to-Shopify CI/CD deploy pipeline with PR preview environments and automated linting, cutting deploy cycle from a multi-hour manual process to under 20 minutes and enabling same-day hotfixes across both storefronts.

Calhome (T-Motor Sports Inc) - Web Developer (Project-Based) Pomona, CA · Mar 2024 - Jun 2024

- Built a Python multi-channel catalog sync pipeline integrating 5 retailer APIs (Amazon SP-API, Wayfair, Home Depot, Walmart, Lowe's), normalizing product schemas and automating async submissions, driving 35% cross-platform sales growth within the 3-month engagement.
- Achieved 99.5% inventory accuracy across 500+ SKUs and 5 sales channels by implementing automated Python validation and reconciliation scripts, cutting discrepancy resolution from ~2 days to same-day and manual data entry 60%.
- Designed a SKU attribute normalization schema mapping 500+ product attributes across 5 retailer APIs, establishing a single-source-of-truth catalog and cutting ~5 hrs/week of per-channel manual data reformatting.
- Redesigned the Shopify storefront with responsive layouts, optimized imagery, and cross-device navigation, reducing page-load time 28% and enabling unified catalog display across all 5 marketplaces.

PROJECTS

L.A. Colors Headless Theme & B2B Distributor Portal. *Shopify OS 2.0 · Liquid · Tailwind · Web Components · GraphQL · React · Metaobjects*
Custom Shopify OS 2.0 theme with 40+ modular sections and a Locksmith-gated B2B portal with metaobject catalog, infinite scroll, and quote-request wishlist. Serves 120+ distributor accounts across both brands with zero downtime since launch.

Stamped.io Loyalty & Reviews API Gateway. *Node.js · Express · Vercel Serverless · Docker · JWT · Prometheus · observability*
Secure serverless middleware with CORS/JWT endpoints, rate limiting, circuit breaker, TTL caching, structured logging, and health/metrics observability. Reduced Stamped.io API error rate 40% and p95 latency from 800ms to under 200ms serving 2,600+ SKUs across two live storefronts.

Bazaarvoice to PowerReviews Feed Pipeline. *Node.js · GitHub Actions · SFTP · XML · Jest · TDD*
Automated daily product-feed sync via scheduled GitHub Actions CI/CD with Jest TDD, secret management, and failure alerting. Cut catalog sync lag from 24 hrs to under 1 hr, delivering same-business-day review indexing across all product pages and eliminating the manual export step entirely.

Product Information Management (PIM) Pipeline. *Python · pandas · openpyxl · Next.js dashboard*
Normalizes 10,000+ product attributes across 2 source systems with header-diff comparison and a Next.js review dashboard, cutting manual data entry 60%. Eliminated 8 hrs/week of manual data-entry work and reduced downstream attribute errors surfaced on live product pages.

EDUCATION

M.S. in Computer Science - Georgia Institute of Technology Atlanta, GA · Expected 2027

B.S. in Computer Science - San Diego State University · Dean's Honors List (GPA 3.5+) San Diego, CA · Dec 2023

CERTIFICATIONS

Frontend Developer Career Path - Scrimba	2025
Spring by Google (Microservices) - Coursera	2025
IBM Full-Stack Developer - Coursera	2024

SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL (PostgreSQL, MySQL), HTML5, CSS3, Java (coursework)

Frontend: React.js, TailwindCSS, Next.js, Liquid, Web Components, WCAG/Accessibility

Backend: Node.js, Express, Spring Boot (cert), REST APIs, GraphQL, JWT/CORS, Webhooks, Microservices, distributed systems

Cloud & DevOps: AWS (Lambda, Vercel Serverless), Docker, CI/CD (GitHub Actions), Prometheus, observability, cloud-native

Databases: PostgreSQL, MySQL, SQL/NoSQL data modeling

Testing & Delivery: Jest, TDD, CI/CD (GitHub Actions), Agile/Scrum, Code Review

AI & Tools: Claude Code, GitHub Copilot, LLM/GenAI API integration, agentic/MCP automation, prompt engineering, Git/GitHub