LOUIS BOUDDHOU

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SUMMARY

Senior frontend engineer building the shared frontend platform other product teams build on. Drove adoption of AI coding tools across an engineering team, shipped a package running in 9 of 10 consumer-facing repositories, and led testing practice that took a codebase past its quality gate. React, Next.js, and TypeScript across a 10-repository monorepo estate.

TECHNICAL SKILLS

Languages and frameworks: TypeScript, JavaScript (ES6+), React, Next.js, Node.js, HTML, CSS, SASS, Python (pytest), Angular

Platform and architecture: monorepo tooling, Webpack, npm package authoring and distribution, shared frontend platform consumed by 10 product repositories, design systems and component libraries, frontend API contracts

AI-assisted development: Claude Code, Model Context Protocol (MCP) agent workflows, agentic workflows, context engineering (repo-level agent context standards), custom agent hooks, AI tooling rollout across the software development lifecycle

Testing and quality: Selenium, pytest, Cypress, Jest, end-to-end and component test design, visual regression testing, SonarQube quality gates, coverage remediation

Delivery and operations: CI/CD (GitHub Actions, Jenkins), Docker, AWS (S3, Secrets Manager), LaunchDarkly, Datadog, production incident response, release coordination, cross-functional collaboration

EXPERIENCE

Rakuten Rewards (Ebates Performance Marketing, Inc.) — *New York, NY*

Senior Frontend Engineer — *Mar 2024 - Present*

- Drove adoption of the company's AI coding framework across all 6 team repositories after being selected by engineering leadership to lead it, authoring the architecture, the skill reference, and the rollout plan the team now works from.
- Shipped an onboarding package now rendered in production by 9 of 10 consumer-facing repositories, scaffolding it from zero inside the shared frontend platform monorepo and choosing and documenting the architecture against a competing approach.
- Wrote the frontend API contract the backend team built against, so both sides could work in parallel rather than in sequence.
- Drove that rollout across 5 teams and 10 web repositories, replacing ad-hoc coordination with a written playbook naming every consumer repository, its owner, and the rollout order.
- Took feature-flagged flows from untestable to 36 automated end-to-end cases, building a Selenium and pytest suite from zero and designing a two-phase test-authentication pattern so flag variants could be exercised at all.
- Closed an OWASP A02 sensitive data exposure that left a client secret reachable from the browser, then lifted new-code coverage from 75.9% past the 80% quality gate and repaired 33 pre-existing test failures.
- Resolved a cross-team production incident that was firing 404 alerts at another engineering team, tracing a client-side refetch through Datadog and shipping the fix inside the sprint.
- Migrated the team's repositories to Next.js 14 and v7 of the internal design system, then coordinated 15 or more production deployments across 6 repositories including a same-day three-repository release.
- Authored a 10-part architecture document series for scaling an out-of-network merchant experience to thousands of deactivated stores, covering store availability, retailer and brand surfaces, similar stores, interstitials, coupons, and bulk update paths.
- Served a rotating term as web guild lead, connecting the guild to the OpenAPI documentation standards working group and producing an endpoint registry cataloguing roughly 40 internal endpoints across 6 service namespaces.
- Raised engineering standards across the team: consolidated code ownership across 6 repositories, shipped CI that rejects malformed pull request titles, unblocked a lint failure that was preventing every developer from pushing, and wrote the post-deploy monitoring runbooks the team uses after releases.

ShopStyle (acquired by Rakuten, 2017) — *New York, NY and San Francisco, CA*

Frontend Engineer III — *Mar 2023 - Mar 2024*

Frontend Engineer II — *Mar 2020 - Feb 2023*

Frontend Engineer I — *May 2017 - Feb 2020*

Software Engineering Intern — *Aug 2016 - May 2017*

- Led the Shift-Left testing initiative and was recognized company-wide for it: took over the Cypress automation effort, ran the weekly cross-functional testing session, established end-to-end practice with QA, and brought engineers up to speed through code review and answering questions.

- Grew component testing from one project into standing team practice across the consumer web and internal publishing platform codebases, recruiting engineers onto the work and mentoring a junior engineer through scoping and shipping their first component tests.
- Introduced visual regression testing and then replaced it as tooling matured, from Cypress snapshots in 2022 to a Percy rollout in 2023 covering 2 locales, 2 browsers, and 3 device classes in Jenkins CI.
- Put campaign and landing-page publishing in marketing's hands across two generations of content platform: built merchandising and sponsored-product features in the internal publishing platform, then built and maintained the Builder.io component library that replaced it, so pages shipped without engineering involvement.
- Rebuilt the authentication and sign-up flow as primary engineer, covering secondary auth entry points, social login, and the main call-to-action path, against a fixed external deadline.
- Proposed the backend automation that replaced manual marketing segment tracking, and contributed to two Angular migrations years apart: the AngularJS rewrite of a CoffeeScript-era codebase, and the Angular 8 upgrade in 2019.

EDUCATION

University of Colorado Boulder | B.S. Computer Science, Software Engineering emphasis | Minor in Business | May 2016