

David Hudlow

Staff Software Engineer — Full-Stack & Platform

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SUMMARY

Full-stack & platform engineer with 14 years building **distributed backend microservices** and the **React/TypeScript** frontends on top of them — and a specialist in **developer experience**: the CI/CD, testing, and internal tooling that make engineering orgs fast. Currently embedded in **PayPal Checkout's Java microservices platform**, where I overhauled CI/CD to enable **multiple production releases per day** and built a **1,000-test regression suite that runs in under 20 minutes on every pull request**. **Amazon alumnus (SDE II)** with production **AWS** and REST-service ownership. Fluent across **REST microservices, React/Node, PostgreSQL, and cloud (AWS/GCP)** — and I own projects end-to-end, from architecture through iteration and monitoring.

EXPERIENCE

PayPal — Staff Software Engineer · Checkout

2023 – Present · Java microservices · Developer Experience · global e-commerce

- Work hands-on inside **PayPal Checkout's Java microservices platform** — a large-scale distributed system — debugging across services and delivering SDK feature support.
- **Own developer experience for the Checkout org**. Built **Landroval** (first tool at PayPal to spin up complex SDK integration flows fully locally, cutting developer setup from hours/days to minutes) and **SyncPal** (code-defined, Harness-deployed management of integration environments, replacing manual console configuration).
- **Made daily releases real**. Migrated Checkout's CI from Jenkins to **Harness**, collapsing release from 18+ non-trivial steps to 2–3 trivial ones. A team that previously struggled to ship weekly now **releases multiple times per day**.
- **Built a functional-testing framework from the ground up** (Playwright) with custom test-resource caching and stability-first multithreaded design — taking the suite from dozens of tests in 1–2 hours to **1,000+ automated tests running in under 20 minutes against every PR and release**.
- Drove org-wide adoption by producing under-5-minute video walkthroughs that **onboarded all ~80 engineers** onto the new CI/release and tooling — the enablement work that made the change actually land.

Omniscient Neurotechnology — Staff Software Engineer

2021 – 2023 · React / TypeScript / Node fullstack · regulated (HCLS)

- Architected the **React/TypeScript front end of Quicktome**, an **FDA-approved** web application used by US neurosurgeons — full-stack over **Node.js** services and **MongoDB**, deployed on **AWS** with Docker and Kubernetes.
- Invented a minimalist **interface-definition system using TypeScript generics + Zod** that let client, server, and handler implementations stay generic over a single endpoint definition — eliminating client/server code generation.
- Designed an **egress-only server security architecture** for hospital deployments; led **multi-vendor security review and rollout of multi-customer SSO** — the security and compliance diligence required to ship regulated software.

Amazon — Software Development Engineer II

2020 – 2021 · AWS-native distributed services

- Built the high-volume **hiring portal for hourly warehouse and delivery workers** — designed the **distributed service architecture and REST interfaces** for a production system serving Amazon's hiring pipeline at national scale.
- Full-stack on **React / Node.js / TypeScript**; owned **24x7 on-call**. Tech: **AWS Lambda, DynamoDB, EC2, S3, CloudFront**.

Thermopylae Sciences + Technology — Senior Software Engineer & Cloud Architect

2014 – 2020 · Google Cloud Partner

- Built **several Java backend services over PostgreSQL**, writing the queries and data workflows behind a production geospatial platform.
- Built a **one-click branch-deploy system on Jenkins** and automated full local-environment setup with **Ansible** — cutting developer onboarding from one-to-two days to minutes. (Developer-experience work, a decade running.)
- Built a custom **cloud environment for a DoD organization** with advanced network design, secure on-prem connectivity, and full deployment automation.

Raytheon Co. — Software Engineer

2012 – 2014

- ScrumMaster of a software team; built CI automation and Java-based geospatial systems.

PROJECTS

DumpLogic — Founder and lead engineer of operations software for the dumpster-rental industry, launched **2026**, with contributions from a brother-in-law I've mentored into production engineering. Built end-to-end on **Google Cloud (Cloud Run, Firestore)** with **fully automated branch-based deployment**.

EDUCATION & CERTIFICATIONS

- **B.S. in Software Engineering** — The University of Texas at Arlington
- **Google Professional Cloud Architect** (2018–2022)

SKILLS

- **Languages:** Java, TypeScript, JavaScript, Node.js
- **Frontend:** React, Vue, TypeScript
- **Backend & Distributed Systems:** REST microservices, multi-tiered distributed systems, object-oriented design & design patterns, multi-threaded programming, large-scale automated integration/E2E testing
- **Data:** PostgreSQL / SQL, DynamoDB, MongoDB, Firestore
- **Cloud & Infrastructure:** AWS (Lambda, DynamoDB, EC2, S3, CloudFront), GCP (Cloud Run, Firestore, GKE), Kubernetes, Docker, Linux
- **Developer Experience / CI/CD:** Harness, Jenkins, GitHub Actions, Ansible, Playwright, Selenium; local-dev tooling, release engineering, developer enablement at org scale
- **Practices:** end-to-end project ownership, code review, cross-stack incident leadership, ScrumMaster / Agile, internal technical evangelism