Ashish Kharche

Senior Mobile Engineer | Full-stack TypeScript · React · Node.js · AWS · Payments

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Summary

Full-stack TypeScript engineer who in 2026 worked on a new payments platform on AWS for Paythru: Fastify API, React portal, PostgreSQL and AWS CDK infrastructure. Four years of payments work at Paythru (Adyen Terminal API, Checkout and webhooks; OCPI for EV charging), with every change reviewed and tested before deploy.

Skills

Front end: TypeScript, JavaScript, React 19, Vite, TanStack Router, Query and Start, Next.js, Tailwind CSS v4, shadcn/ui
Back end: Node.js, Fastify, REST, OpenAPI, Zod, PostgreSQL, Drizzle ORM, pg-boss, WebSockets, Better Auth
AWS: CDK v2, ECS Fargate, Lambda, API Gateway, RDS, SQS, S3, CloudFront, DynamoDB, Secrets Manager, CloudWatch, GuardDuty
Payments: Adyen (Terminal API, Checkout, webhooks), OCPI 2.2.1
Testing and tooling: Vitest, Jest, Maestro, pnpm, Turborepo, Biome, Docker, GitHub Actions, Bitrise, PostHog, AI-assisted development
Mobile: Kotlin, Jetpack Compose, Swift, SwiftUI

Experience

Paythru Limited, London · Mar 2024 to Oct 2026
Senior Mobile Engineer
EV charging and payments · iOS and Android apps, then AWS platform work · product and engineering team of 10

- In 2026, worked on Paythru's new payments platform, designed for 10,000 terminals: TypeScript monorepo (Node 22, pnpm, Turborepo) with a Fastify 5 API (Zod, OpenAPI), React and Vite portal (TanStack Router and Query, shadcn/ui), PostgreSQL with Drizzle, and a pg-boss and SQS worker.
- Infrastructure in AWS CDK v2: ECS Fargate behind a private load balancer and CloudFront, RDS PostgreSQL, Lambda, API Gateway, SQS with a dead-letter queue, plus alarms, an uptime canary and budgets.
- Integrated Adyen Terminal API and Checkout, with an append-only audit log.
- Ensured retried or duplicate Adyen webhooks were never processed twice: idempotency keys and HMAC-checked, de-duplicated webhooks, covered by failure-path tests.

- Prevented double charges with a double-charge guard that never marks an uncertain payment as failed.

Paythru Limited, London · Oct 2022 to Feb 2024
Mobile Engineer
- Android work on Paythru's white-label EV charging and payment apps in Kotlin and Jetpack Compose with MVVM, released on Google Play.

SpaceX Super Intelligence (SpaceXSI), formerly xAI · Part-time · Jan 2026 to Oct 2026
Quality Assurance Engineer
- Carried out regression and release testing on more than 500 builds of the Grok web and iOS apps across chat, Imagine, Build and MCP, including payments, subscriptions and sign-in; gave release sign-off and tracked bugs in Linear.

Maestro (maestro.dev), mobile UI testing framework · Mar 2023 to Sep 2024
Developer (contract, alongside Paythru)
- Wrote about 10 mobile test suites covering four core features for Maestro Cloud and Studio with CI on GitHub Actions and Bitrise; wrote 14 posts for the Maestro blog (maestro.dev/blog) on cross-platform testing, React Native, Flutter, WireMock mocking and CI.

Independent projects

Workout Director (published on the App Store by Shelgaon Ltd) · Live since Oct 2026
- A mobile workout app that counts reps and coaches by voice, plus its web app in TanStack Start, React 19, Tailwind CSS v4 and TypeScript; TypeScript API on AWS Lambda, API Gateway and CloudFront with six DynamoDB tables, Better Auth (Apple, Google, email codes) on PostgreSQL, Zod and Vitest, all in CDK.

Kalo (published on the App Store by Shelgaon Ltd) · On the App Store
- A mobile nutrition app that tracks calories and macros: photo, voice and barcode meal logging through a server-side proxy for meal analysis, with Open Food Facts lookups and RevenueCat subscriptions. apps.apple.com/gb/app/id6752915724

Education

MSc Software Engineering, Kingston University, London · Sep 2021 to Sep 2022
Bachelor of Engineering, Computer Science, Government College of Engineering Aurangabad · 2016 to 2020

Certifications

AWS Certified Solutions Architect – Associate (expired Feb 2025)
AWS Certified Cloud Practitioner (expired Feb 2025)