

SANJAY KAPILESH SRIDHAR

FULL-STACK ENGINEER

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SUMMARY

I'm a full-stack engineer with 5+ years shipping production systems end-to-end: Kafka data pipelines, serverless AWS backends, and the React interfaces on top. I love taking problems from scoping through architecture to release, and I introduce patterns teams keep using.

SKILLS

- **Languages:** TypeScript, JavaScript, Python, SQL
- **Frontend:** React, Next.js, Tailwind, Radix UI, Bootstrap, AG Grid, React-PDF, SSR/SSG, Service Workers, IndexedDB
- **Backend:** Node.js, Express, Django, MongoDB, PostgreSQL, REST APIs
- **Data:** Snowflake, dbt, Kafka
- **Cloud & Infrastructure:** AWS (Lambda, API Gateway, Aurora/RDS, S3, CloudFront, EC2), Docker, Terraform, Vite, CI/CD (Netlify, Vercel)
- **Testing & Practices:** Jest, Cypress, Agile / Scrum
- **Familiar:** Go (learning), Rust, Angular, Vue, Gatsby, React Native

WORK EXPERIENCE

Shopper Media Group, Full Stack Engineer

Mar 2024 - Present

React, TypeScript, Express, Node.js, MongoDB, AWS Lambda, Snowflake, Kafka, dbt, Terraform, Azure DevOps, Radix UI

- **Migrated the AI commentary engine** (auto-generates client-facing notes from in-app studies) off Databricks to a serverless AWS stack — API Gateway, Lambda, and Aurora — the application's first microservice, cutting run cost ~90% (£1,000 to £100/month) and adding multi-region reliability.
- **Built out a Kafka pipeline streaming production data from MongoDB to Snowflake**, contributing dbt models and writing the Terraform that manages the Snowflake infrastructure — now the data foundation reshaping how the business uses its data.
- **Built the team's Azure DevOps CI/CD pipeline for the Snowflake data platform's Terraform infrastructure, end-to-end:** Checkov security scanning, then plan, then a gated apply promoting to staging and production by branch — replacing manual changes with on-demand deploys and lifting infrastructure code quality across the team.
- **Owned a bulk campaign-management tool end-to-end** over a 250k-activity dataset growing +25k/month: scoped with product and stakeholders, introduced the Adapter pattern and custom MongoDB aggregation strategies for fast lookups — now in daily use across the insight and finance teams.
- **Took over and fully owned the Creative Workflow feature**, replacing scattered spreadsheet/email processes with one system handling ~40k creative workflows a year, with in-app chat and user-configurable file-validation rules.
- **Rewrote hot data-processing paths** from application-layer JavaScript into MongoDB aggregation pipelines, running up to 2.5x faster on heavy workloads.
- **Built a client-facing dynamic PDF system on React-PDF**, introducing a composition pattern (still the company standard) that renders entirely client-side — zero server load — from reusable templates.
- **Established the company's reusable AG Grid pattern** for high-density, async-editable data grids with full audit logging — adopted widely and later the foundation for the campaign-management tool above.
- **Define frontend engineering standards and review peers' code**, partnering with product and stakeholders from scoping through production release.

Mutus Tech, Android Developer

Jan 2023 - Sep 2023 | Sheffield, UK

Kotlin, Android, Express, MongoDB, Retrofit, JWT

- **Built the native Android application in Kotlin** for a farmer-focused platform (deployed for the client and still in use), including a Reddit-style social system for users.
- **Engineered the Express/MongoDB backend** to integrate with ML systems, wiring multiple microservices via Retrofit with JWT authentication.

Cyces Innovation Labs, Full Stack Developer

Dec 2020 - Aug 2022

React, Vue, Next.js, React Query, Redux, Zustand, Chakra UI, React Native, Express, Python, Django, PostgreSQL

- **Built the company's design system on Chakra UI**, tailored to client requirements — it became the starting point for every new project and standardised UI delivery across teams.
- **Authored a custom form-handling library** extending React Hook Form to company patterns, plus a shared custom-hooks library — both adopted across the company's apps to cut boilerplate and speed delivery.
- **Built a music-course mobile app in React Native — 500k+ downloads on the Play Store** — with an offline-first architecture (Android Room) and a WebView bridge for native-to-web communication; also contributed to its Python/Django backend.
- **Engineered an HRMS platform in Django** with a multi-tenant data model, role-based access control, and an offline-first approach for uninterrupted service.
- **Built a server-side-rendered (SSR) course application** to improve SEO and user experience.

- **Led a small team with direct reports** and owned CI/CD for a 10-person team across Jenkins (AWS EC2), Netlify, and Vercel — enabling deployments on demand.

Earlier Roles, Frontend & Django Internships

2019 - 2020 | Razz Security, Happy NZ Tours

- Built CMS/CRM platforms (**20k+ users**) for travel and learning clients using React, Angular, and Django, with a focus on accessibility (WCAG) and third-party integrations (Google Maps SDK, live video/chat).

EDUCATION

University of Sheffield, UK, MSc Advanced Computer Science | Sep 2022 - Sep 2023

Key modules: The Intelligent Web, Text Processing, Software Development for Mobile Devices, OOP & Software Design, Software Reengineering, Parallel Computing with GPUs

B.Tech Computer Science | 2018 - 2022

PROJECTS

Attendance Predictor — Full Stack. Built a tool that computes the classes needed to hold attendance above 75%: scraped the university ERP with Cheerio/Express, simulated JWT auth via Axios to pull session data, then ran a threshold algorithm over current attendance.

ACHIEVEMENTS

- **Open Source — React:** Contributed to React's type definitions; raised a PR fixing a TypeScript compilation issue when creating the root node in React 18.
- **Hack Sheffield 7 — First Place:** Built an Android background service intercepting Meta-app notifications and call data without app permissions, uploading to Firebase — demonstrated as a platform vulnerability. (Java / Android)
- **Hack Sheffield 7 — Best Innovative Idea:** Led a team on a cross-platform Unity game (PC/Mac/Android/iOS) with custom collision and damage systems. (C# / Unity)
- **IBM Paper Presentation — Third Place:** Presented digiEye, an IoT aid for the visually impaired using on-device image recognition (TensorFlow Lite) with audio feedback.