# ADIL BAJWA

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## PROFILE SUMMARY

Full-stack AI engineer with over seven years' experience across PropTech, live streaming and social platforms, shipping production features from interface through API on web and mobile.

Production experience spans React, React Native, Next.js, TypeScript and Node.js, building features end to end from the interface to the APIs behind it. Backend modernisation work I led lifted efficiency by 34% on a multi-country SaaS platform, and earlier I helped scale a live-streaming platform's studio module to 2M+ users. I've also taken AI from idea to production: a RAG-based assistant with vector search, a self-hosted language model and tool calling into platform APIs.

Forward-looking focus centres on owning features end-to-end, from design through production, including mentoring engineers and extending into applied AI work when relevant. Suited to Software Engineer or senior software engineering roles valuing full-stack ownership and applied AI capability.

## SKILLS SUMMARY

**Languages:** TypeScript, JavaScript, Python, & SQL.

**AI Engineering:** RAG pipelines, embeddings, semantic search, vector databases (pgvector), self-hosted open-source LLMs, function and tool calling, streaming responses, & prompt engineering.

**Frontend:** React, Next.js, React Native, Expo, Redux, MobX, & Tailwind CSS.

**Backend:** Node.js, Express, NestJS, Koa, GraphQL, REST APIs, Prisma, & Mongoose.

**Architecture:** Event-driven services, microservices, message queues, caching, & API design.

**Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, & Firebase.

**Cloud & DevOps:** AWS, Docker, Kubernetes, Terraform, AWS CDK, GitHub Actions, & CI/CD.

**Testing & Tools:** Jest, Cypress, Git, GitHub, GitLab, & Figma.

## WORK EXPERIENCE

**Teamlink** Sydney, Australia

Senior Software Engineer · Full-time **October 2023 – Present**

*A PropTech SaaS platform used by agencies and property developers in Australia, the UAE, Oman, the Maldives and Vietnam*

- Shipped an in-product AI assistant that answers questions from a customer's own projects, stock, documents and deals, then takes the user straight to the matching page. Built it as a RAG pipeline with pgvector embeddings for semantic retrieval, a self-hosted open-source language model, tool calling into the platform APIs and a streaming chat interface in React. Live in production.
- Delivered a full PropTech product suite now live in five countries: a consumer property marketplace, a developer portal, an agency platform, an admin dashboard and a React Native app for iOS and Android.
- Led frontend architecture in Next.js, React and TypeScript, and built the shared component library and design system now used by all four products, which cut duplicated UI work and shortened the path from design to release.
- Modernised backend services across Node.js, Express, Koa, SQL and Mongoose, moving heavy processing onto event-driven jobs so the platform absorbs higher load without response times degrading.
- Set technical direction with product and design, keeping several workstreams moving in parallel.

**HOME789 Resources Pty Ltd** Sydney, Australia

Software Engineer · Full-time **December 2022 – October 2023**

- Led development of four web portals and a mobile app for real estate projects in Next.js, React, TypeScript and React Native, replacing manual project workflows with tooling the sales teams used daily.
- Improved backend efficiency by 34% by refactoring and rebuilding modules in Node.js, Express, Koa, SQL and Mongoose, and reworking the service architecture to hold up under heavier traffic.
- Rebuilt the CI/CD pipelines with Docker, Kubernetes, AWS and Terraform, cutting deployment time and giving the team one repeatable release process across every application.

**OneStream Live** Espoo, Finland

Full-Stack Developer · Full-time **December 2021 – November 2022**

*Multi-streaming platform serving 2M+ users across 45+ social platforms, used by brands including Hyundai and The Body Shop*

- Built and shipped the studio module with real-time layouts, meeting controls and integrated live streaming, which drove a 40% increase in paid subscriptions.
- Integrated the Chargebee iOS SDK at the native layer using React Native, Objective-C and Swift, enabling Apple Pay for in-app subscription management.
- Extended pre-recorded and playlist streaming so users could queue and schedule content up to 60 days ahead.
- Added RTMP encoder support with unified chat and embedded streams, letting streamers broadcast through OBS, Zoom, Streamlabs and social platforms from one place.

**Devsoul** Gujranwala, Pakistan

Full-Stack Developer · Full-time **September 2019 – November 2021**

- Built a Discussion Room feature comparable to Twitter Spaces, with real-time moderation, scheduling and audience controls.
- Maintained core modules for Simsim, a Google-backed platform, and led feature development on Qeraty and Biohotspot.
- Mentored junior developers on the team and worked with product and design to ship web and mobile features together.

**Sizdom Technologies** Gujranwala, Pakistan

Software Engineer · Part-time **January 2018 – August 2019**

- Built React Native mobile apps and web apps in React and Next.js, including Sospesa, Befulfilled and BoxIT.
- Rebuilt backend modules into a modular architecture, improving application speed and making the services easier to scale.

## EDUCATION

**Swinburne University of Technology** Sydney, Australia

Master of Information Technology, Data Analytics and Cloud Computing

**Technische Universität Berlin** Berlin, Germany

Technical Internship, Microservices and Application Development