

Lloyd Ntim

Senior Product Engineer / Full-Stack Engineer

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PROFILE

Senior Product / Full-Stack Engineer with 15 years building production software for enterprise and consumer brands including E.ON, Kia, Deutsche Bank, Sony and Vorwerk. Combines deep React/Next.js and frontend architecture expertise with hands-on backend engineering across Node.js, Python, REST/GraphQL APIs, PostgreSQL and MongoDB. Experienced taking products end-to-end from application architecture and UX through API design, authentication, data modelling, testing and deployment. Uses Claude Code, Codex, Copilot and Gemini within spec-driven and agentic development workflows to support implementation, testing, code review and engineering quality. Bilingual English/German, fluent French; available across the UK, Germany, Switzerland and remote.

SELECTED ACHIEVEMENTS

End-to-end product engineering at AnzaKen: Architecting and building API-backed products including VocApp across React/Next.js, Node.js/TypeScript and PostgreSQL, covering authentication, validation, security and deployment. Uses coding agents and spec-driven development to accelerate delivery while maintaining engineering quality.

Full-stack architecture at Vorwerk: Created a new frontend-focused architecture for vorwerk.com's multi-market website, integrating AWS Lambda-based server-side rendering with the React/AEM application and synchronised GitLab deployments to keep client and server builds aligned. Achieved Lighthouse scores of 85–90+ while preserving seamless WYSIWYG authoring for CMS editors.

Product engineering at Guilds: Delivered features across mobile, web and backend from early development through hands-on client testing and first launch, using React Native, Swift/SwiftUI, Python/FastAPI, REST APIs and PostgreSQL alongside the CTO and backend lead.

Multi-market component architecture at E.ON: Led design and delivery of a reusable React/Stencil web-component library integrated with Java/AEM templates across ~3–4 European markets. Built supporting Java modules and Maven-based integration, replacing fragmented country implementations with a single versioned system usable across different framework versions.

React/Redux framework and team scaling at Deutsche Bank: Built the React/Redux application framework adopted across Deutsche Bank internal platforms via HCL, then grew the frontend team from 3 to 20 engineers, designing training material, running workshops, and conducting technical interviews.

TECHNOLOGY STACK

- **Languages:** TypeScript, JavaScript, Python, Java, SQL
- **Backend & APIs:** Node.js, Express.js, FastAPI, REST APIs, GraphQL, OpenAPI, JWT
- **Databases & Data:** PostgreSQL, MongoDB, Redis, Prisma, Mongoose
- **Frontend:** React, Next.js, React Native, Swift/SwiftUI, HTML5, CSS3
- **Testing:** Vitest, Jest, Playwright, Cypress, React Testing Library
- **Cloud & DevOps:** AWS, GCP, Docker, GitHub Actions, GitLab CI/CD, Vercel, Render
- **Build & Tooling:** Vite, Webpack, Maven, npm
- **AI Development:** Claude Code, Codex, Copilot, agentic workflows, spec-driven development
- **Platforms:** AEM, Contentful
- **UI & Quality:** Tailwind CSS, Styled Components, Storybook, WCAG, Lighthouse

PROFESSIONAL EXPERIENCE

Senior Product Engineer | AnzaKen | London

Aug 2025 – present

Leading full-stack product engineering for a business consultancy, taking client-facing products from requirements and technical design through implementation, testing and production delivery. Part of a small leadership team alongside the product owner and backend architect.

- **Product architecture:** Own frontend and backend architecture, defining feature-based frontend modules and a layered Express backend with routes, controllers, services and repositories, alongside reusable component and API patterns.
- **Full-stack delivery:** Build reusable UI components and REST APIs with JWT auth, integrating Google Cloud Translation and text-to-speech services, with PostgreSQL, Redis, Docker and GitHub Actions.
- **Spec-driven development:** Build features from defined specifications using Claude Code, Codex and Copilot in agentic workflows, covering implementation, unit testing, code review and iterative delivery.
- **Client-facing technical consulting:** Participate directly in client pitches and discovery meetings, scoping technical needs, advising on feasibility and shaping proposals.

Stack: React, TypeScript, Next.js, Node.js, Express, REST APIs, PostgreSQL, GitHub Actions, Claude Code, Codex.

Frontend Architect | Vorwerk | Zürich

Jul 2024 – Jun 2025

Defined product architecture for vorwerk.com across React, Node.js SSR and AEM/Java integration. Analysed the existing Java codebase, models and servlets to design client/server data flows and improve performance and authoring.

- **React SSR in AEM:** Designed and implemented a Vite-based React SSR foundation for AEM that enabled SPA-style delivery while preserving WYSIWYG authoring through Java servlet integration, solving a complex integration challenge and underpinning the production website.
- **Backend integration:** Analysed Java models, servlets and JSON data exchange, connecting AEM-backed services with React/Node.js SSR while maintaining consistent server/client rendering.
- **Accessibility and usability:** Improved React component quality against internal WCAG 2.2 guidelines, using Google Lighthouse and Pa11y during review while refining markup, interaction states and user guidance.
- **Serverless deployment:** Collaborated with solution and technical architects to automate GitLab CI/CD deployment of the React SSR build to AWS Lambda as part of the serverless hosting architecture.
- **Full-stack collaboration:** Defined frontend/backend interaction patterns and worked with Java/AEM engineers on data flow, API integration and production implementation across the platform.

Stack: React, TypeScript, Node.js, Java, AEM, Vite SSR, JSON, AWS Lambda, GitLab CI/CD, Lighthouse.

Senior Web Developer | AOE — client: Kia | Wiesbaden

Apr 2023 – Mar 2024

Worked across React/AEM application layers on the Kia website rebuild, combining senior frontend delivery with Node.js BFF development, Java service integration, API data flows and team mentoring.

- **Senior technical mentorship:** Acted as the React expert, introduced structured testing practices, defined coding standards, and coached junior developers on React patterns and component design.
- **Node.js BFF / Java integration:** Developed the server-side BFF linking Java services to React, transforming backend data and preparing API responses for application features.
- **API testing and debugging:** Tested frontend/backend flows, created test data and traced defects across Java services, the Node.js BFF and client application, improving reliability and maintainability.
- **Code quality uplift:** Audited existing code, introduced testing where there was none, tightened conventions, and fixed accumulated bugs as continuous delivery alongside feature work.

Stack: React, TypeScript, Node.js, Express.js, BFF, Java, AEM, REST APIs, Maven, Jest, Figma, Git.

Full-Stack Engineer | Native Instruments | Berlin

Nov 2022 – Mar 2023

Delivered cross-stack functionality for a multinational website rebuild across backend customer-data services, APIs, search integration, frontend delivery, testing, SEO and performance.

- **SEO performance:** Identified and implemented SEO improvements that lifted the site's search visibility.
- **Backend services & APIs:** Developed customer-data services and enhanced API functionality, integrating service data into production features and debugging data-flow issues.
- **Search & cross-stack testing:** Integrated search APIs end-to-end, tested service/client behaviour and resolved defects across backend, API and frontend layers.

Stack: React, TypeScript, Node.js, Backend Services, GraphQL, Apollo, APIs, Search, HTML5/CSS3, Git.

Product Engineer | Guilds Inc | London

Mar 2022 – Oct 2022

Product engineer in a small founding team building a mobile gaming crypto wallet across React Native, Python/FastAPI services and PostgreSQL. Worked directly with the CTO, backend engineer and designer across APIs, data and UI delivery.

- **Cross-platform component library:** Designed a reusable React Native component library serving both the mobile app and a React Native Web companion build from a single source of truth, styled with Styled Components for theme consistency across platforms.
- **Python/FastAPI services:** Developed and updated REST API services for mobile workflows, CRUD operations and third-party integrations across React Native and SwiftUI clients.
- **PostgreSQL / API delivery:** Queried and managed development data with SQL/pgAdmin, validated application state and troubleshoot API/data issues across FastAPI services, PostgreSQL and mobile clients.

Stack: React Native, TypeScript, SwiftUI, Python, FastAPI, REST, PostgreSQL, SQL, pgAdmin, Git.

Lead Developer | E.ON | Essen

Nov 2020 – Feb 2022

Led full-stack platform delivery for eon.de within a multi-country AEM architecture, combining React/Stencil engineering with Java/AEM models, services and CMS data integration.

- **Cross-market component system:** Designed and led delivery of a React/Stencil web-component library adopted across E.ON's international AEM properties, replacing fragmented per-country frontends with a single versioned system.
- **Java/AEM backend integration:** Developed Java models and services to retrieve and structure CMS content for React/Stencil components, connecting server-side data with reusable multi-market application features.
- **Cross-stack delivery:** Led 2–3 engineers across features and reviews while debugging Java/AEM services, CMS data and frontend integration issues and supporting Maven builds and deployments.
- **Quality practices:** Established Jest unit-test and Cypress integration-test patterns adopted across the team; introduced documentation conventions that reduced onboarding friction.

Stack: AEM, Java, Java Models/Services, Maven, React, Stencil.js, TypeScript, Jest, Cypress, Docker, Git.

Full-Stack Engineer | HeyCar | Berlin

Jun 2020 – Oct 2020

Developed the React-based frontend for HeyCar's Spanish market launch within a cross-functional team.

- **Market launch delivery:** Built and shipped frontend features for the Spanish HeyCar site, delivering localised, content-managed pages on schedule.
- **Frontend-backend integration:** Integrated React pages with Kotlin APIs and Contentful CMS, mapping content to render dynamic, localised pages.
- **Quality and investigation:** Wrote integration and unit tests, documented features, and investigated production defects.
- **Cross-team collaboration:** Worked with designers (Figma), backend developers (Kotlin), and stakeholders to align delivery.

Stack: React, Next.js, Node.js, HTML5/CSS3, Contentful CMS, Cypress, Figma, Kotlin, Docker, Git.

Frontend Developer | E.ON | Essen

Nov 2018 – Mar 2020

First E.ON engagement across the AEM application stack, developing React components alongside Java/AEM models, CMS data integration and cross-layer debugging.

- **jQuery-to-React migration:** Led the conversion of legacy jQuery-based AEM components into React-based web components, foundational modernisation that set up the architecture later extended during the 2020–2022 lead engagement.
- **Java/AEM services:** Built server-side models and services to retrieve CMS content and expose structured data to React components, establishing reusable client/server integration patterns.
- **Build & debugging:** Used Maven-based AEM workflows, supported environment deployments and diagnosed issues across Java services, CMS content and reusable frontend components.

Stack: AEM, Java, Java Models/Services, Maven, React, Web Components, ES6, Jest, Webpack, Git.

Senior Frontend Developer | Deutsche Bank | Frankfurt

Feb 2016 – Feb 2017

Led the React/Redux frontend framework buildout and developer enablement programme for Deutsche Bank's internal banking platforms, embedded as the senior frontend engineer in a rapidly growing multinational team.

- **React/Redux framework design:** Designed and built the React/Redux application framework adopted as the frontend standard across Deutsche Bank internal platforms and two partner organisations, replacing inconsistent per-team approaches.
- **Team scaling and training:** Grew the frontend capability from 3 to ~20 engineers by designing onboarding and training material, running Redux/React workshops, and conducting technical interviews.
- **Cross-company adoption:** The component library and patterns were adopted by a second team at a partner company building on the same platform stack, requiring the framework to handle multiple consumer contexts.
- **Knowledge transfer:** Coordinated frontend standards, documentation and review practices across multiple internal and partner teams to ensure consistent delivery quality.

Stack: React, Redux, Mocha, Node.js, Less, Webpack, Git.

EARLIER ROLES

- **Web Developer** — Leftshift IT (London, 2018) · *Vue.js, React, ES6, MUI*
- **Full-Stack Developer** — Creative ITC / Sky TV (London, 2018) · *React/Redux, GraphQL, Optimizely*
- **Full-Stack Developer** — Harness Properties (London, 2017–2018) · *React/Redux, Next.js*
- **Frontend Developer** — Dark Blue / Sony Europe (London, 2017) · *React/Redux, AEM, TypeScript*
- **Web Developer** — Waitrose (Bracknell, 2015–2016) · *Backbone, Node.js*
- **Web Developer** — AKQA (London, 2014–2015) · *AEM/CQ5, JavaScript*
- **Frontend Developer** — Ryanair (Dublin, 2014) · *Backbone, Angular, Sass*
- **UI Developer** — Skyscanner B2B (Edinburgh, 2014) · *JavaScript, jQuery, ASP.NET*
- **JavaScript Developer** — Sony Europe (London, 2013) · *TypeScript, Facebook API*
- **Earlier** — First Clarity, Smile-on (London, 2012–2013) · *JavaScript, Backbone, PHP*

SELECTED PROJECTS

VocApp — Mobile-first language-learning application with gamified memorisation · 2019–present

<https://vocapp.uk> · <https://github.com/lloydntim/vocapp>

Sole-engineered full-stack product built end-to-end across React/Next.js and Node.js/Express, with REST APIs, PostgreSQL, JWT authentication and Google Cloud Translation/text-to-speech integration. Architected feature-based frontend modules and a layered backend using routes, controllers, services and repositories, with Redis, Docker, GitHub Actions, unit testing and Sentry observability.

Crypto Asset Tracker — Crypto portfolio tracker · 2023
<https://crypto-asset-tracker.up.railway.app/> · <https://github.com/lloydntim/crypto-asset-tracker-client>
Full-stack portfolio product with a React/TypeScript UI and Node.js/Express backend, Apollo GraphQL data layer, MongoDB/Mongoose persistence, JWT/bcrypt authentication and CoinMarketCap integration. Built multi-wallet valuation logic, reusable atomic-design components, unit/E2E coverage, logging and containerised/deployed services across Vercel and Render.

Claude AI Skill Toolkit — Agentic workflows for job search, CV matching and automation · 2025–present
Built reusable Claude skills and agentic workflows for job/freelance search, CV-to-role matching, tailored application generation and Google Sheets automation via Python. Uses the Claude Agent SDK, structured prompts, tool orchestration and repeatable workflow definitions.

EDUCATION

BA (Hons) Digital Media and Marketing — London Metropolitan University	2005 – 2008
Abitur — Bürgermeister Smidt Gymnasium, Bremerhaven	2001 – 2004