

JEFFIN JOSE

Full Stack Engineer

BTech - Computer science & engineering (2015)

2016-Present

<https://jeffinjose.dev>

+447741504233

jeffinj787@gmail.com

Sheffield, United Kingdom



Senior Full Stack Engineer with 10 years of experience building SaaS products, web and mobile apps with TypeScript, Next.js, React Native, NestJS, and Python. Experienced in multi-tenant platforms, Microsoft security integrations, real-time systems, and AI features, working directly with founders from idea to launch.

Skills:

- **Languages:** TypeScript (6+ years), JavaScript (10 years), Java (5 years), Python (1 year)
 - **Frontend:** Next.js, React, React Native (Expo), Angular, Turborepo, Three.js, Tailwind CSS, ShadCN, MUI, React Query, Zustand, Redux, Context API, React Hook Form, Zod, tRPC, GraphQL, React Server Components, SSR, Server Actions.
 - **Backend:** Node.js, NestJS, Express.js, Spring Boot, Hibernate, Camunda BPMN, FastAPI, SQLAlchemy, REST, WebSockets, SSE, NATS, Bull
 - **Data:** PostgreSQL (Row-Level Security), MySQL, MongoDB, Redis, DynamoDB, S3, DrizzleORM, TypeORM, Prisma, Payload CMS, Strapi, Supabase
 - **Auth & Payments:** Better Auth, NextAuth, Okta, Microsoft Entra ID, Azure AD B2C, OAuth, SSO, Stripe, Razorpay
 - **Cloud & DevOps:** Azure (App Service, AKS, Service Bus, Container Registry, Key Vault), Microsoft Graph, Defender, Sentinel, AWS (EC2, Lambda, S3, Cognito, DynamoDB, Amplify), Docker, Kubernetes, GitHub Actions, Vercel, DigitalOcean
 - **AI / ML:** OpenAI API, PyTorch, OpenCV, Computer Vision, IfcOpenShell, Replicate, Hugging Face, Claude Code (AI-assisted development)
 - **Testing & Tools:** Playwright, Vitest, Jest, ESLint, Prettier, Husky, Semantic Release
 - **Architecture:** Microservices, Event-Driven, Monolith, Serverless, Multi-tenant SaaS
-

PROFESSIONAL EXPERIENCE

- **June 2025 – October 2026**

BeMa Cyber Tech Ltd, London – Senior Full Stack Engineer (Remote)

Tech Stack: TypeScript | Next.js | React Query | React Hook Form | Zod | PostgreSQL | Drizzle ORM | Better Auth | Microsoft Entra ID | Microsoft Graph API | Stripe | Python | FastAPI | Pydantic | SQLAlchemy | PyTorch | OpenCV | PyMuPDF | IfcOpenShell | Three.js | Azure | Docker | Kubernetes

Worked directly with the founders and CTO to design and build security and compliance SaaS products for Microsoft 365 businesses and MSPs. Owned the full stack, from architecture and data model to UI.

1. AI Floor Plan to BIM Converter (MVP)

- Built a tool that turns PDF floor plans into 3D building models (IFC).
- Used an AI model to find walls, rooms, doors, and windows in the plan.
- Built the backend in Python with FastAPI, PyTorch, and OpenCV.
- Created the 3D model files with IfcOpenShell.
- Built a web viewer in Next.js and Three.js to view and edit the model.

2. Lorvaris ComplianceOS – Compliance Automation Platform

- Built a platform that checks a company's Microsoft 365 setup against ISO 27001, GDPR, NIS2, and SOC 2.
- Collected security data from Microsoft Graph, Defender and Azure.
- Built a scoring engine that turns that data into a compliance score.
- Added questionnaires for rules that can't be checked automatically.
- Kept each customer's data separate using database row-level security.
- Added user roles and permissions, invitations and Microsoft sign-in.
- Showed score history and trends for each framework.
- Deployed with Docker and Kubernetes.

3. Teron – Security Dashboard for MSPs

- Built a dashboard that shows MSPs the security status of all their clients in one place.

- Pulled data from Microsoft Defender, Sentinel, and Graph API.
 - Moved the app from React and Express to Next.js.
 - Added charts for Secure Score, vulnerabilities, devices, and 90-day trends.
 - Set up Microsoft sign-in and onboarding for new clients.
 - Built subscription billing with Stripe.
 - Added PDF reports, email alerts, and multi-language support.
-

- **Jan 2025 - June 2025**

Newsquawk Limited | London - Senior Full Stack Engineer (Hybrid)

Tech Stack: TypeScript | Next.js 15 | React | TailwindCSS | ShadcnUI | Motion | Payload CMS | Python | FastAPI | OpenAI API

Worked directly with the founders to plan, design, and build an AI news platform for traders.

Newsquawk news platform with AI integration

- Built a news platform for traders with Next.js and Payload CMS.
 - Used Payload CMS so admins could manage news and marketing content.
 - Created reusable Payload blocks to build news and marketing pages quickly.
 - Built a Python FastAPI service that collects news from different sources.
 - Used OpenAI to summarise news and generate content, which was then sent to the CMS automatically.
 - Streamed live headlines from the backend to the website.
-

- **Feb 2022 - Dec 2024**

Knights LLC (Early-stage esports startup) | Pittsburgh, United States

Senior Full Stack Developer - Tech Lead (Remote)

Tech Stack: TypeScript | Next.js | React | TailwindCSS | ShadcnUI | React Query | NestJS | Node.js | Express.js | PostgreSQL | DrizzleORM | TypeORM | Redis | NATS | WebSockets | Socket.IO | Discord.js | Azure AD B2C | Azure Service Bus.

Worked directly with the founder and CEO on product design and led the tech team from idea to launch.

Leadership

- Led the frontend, backend, and UI/UX teams, and owned all frontend and backend projects.
- Planned and assigned work in agile sprints, mentored junior developers, and reviewed pull requests.

1. Matchbot – Esports Event Management Platform

- Built an admin dashboard in Next.js to create and manage tournaments and events.
- Designed and built a backend of 7 NestJS microservices with matchmaking and queues for a large number of players.
- Sent live updates using NATS, WebSockets, and SSE, and used Redis for caching.
- Secured the APIs with JWT and role-based access, including access based on Discord server roles.

2. Matchbot Discord Bot

- Built a Discord bot for admins to run tournaments and for players to join matches.
- Added slash commands, interactive panels, and live notifications.
- Added leaderboards, match reports, loyalty rewards, and referral invites.

3. Pick-Ban: a real-time League of Legends draft app, used by Riot Games for official championships (Socket.IO, Redis).

4. Authentication: a custom sign-in flow with Azure AD B2C, using Discord as the login provider.

5. Game Client Integration: live match data from the Riot Games API, with a queue system on Azure Service Bus.

• March 2021 - Nov 2021

TapIn Pay (Early-stage retail tech startup) | Richmond, BC, Canada

Full Stack Developer (Remote)

Tech Stack: TypeScript | Next.js | React Native | TailwindCSS | Material UI | NestJS | Prisma | GraphQL | PostgreSQL | Redis | Firebase | WebSockets | Google Maps API | Leaflet | AWS EC2 | Docker | GitHub Actions

1. **Built inventory, ordering and delivery tracking tools for local retailers, and designed the UI/UX for the web and mobile apps.**
 - Built a Next.js inventory app for stores and warehouses.
 - Built a React Native app for drivers to accept orders, get directions and chat with customers.
 - Built a NestJS backend for orders and delivery tracking, with JWT auth, WebSockets and push notifications.
 - Set up CI/CD with GitHub Actions, Docker and AWS EC2.
-

- **January 2020 - February 2021**

Smartechns LLC (Early-stage construction tech startup - SAAS) |

Pennsylvania, United States

Full Stack Developer (Remote)

Tech Stack: TypeScript | Java | Spring Boot | Hibernate | Jersey | Camunda BPMN | AngularJS | RxJS | React Native | Node.js | Express.js | MySQL | Redis | AWS (DynamoDB, S3, Cognito, SNS, EC2) | Jitsi SDK | WebSockets | GitLab CI/CD

Worked with the founder and product manager to plan features and built the company's web, mobile, and backend apps.

- Built an AngularJS admin panel to manage construction site workflows, with dashboards and video calls.
 - Built REST APIs in Spring Boot, with Camunda BPMN to automate site workflows.
 - Built a React Native app for site workers to follow step-by-step workflows.
 - Built video calling for web and mobile with a self-hosted Jitsi setup on AWS.
 - Set up CI/CD pipelines with GitLab and AWS.
-

- **January 2016 - December 2019**

Flexiapps Solutions (Educational technology - SAAS) | Bangalore, India

Full Stack Developer - (On-site)

Tech Stack: JavaScript | Java | ReactJS | React Native | Android SDK | JSP | HTML/CSS | Google Maps SDK | Firebase | SQLite

1. Worked on Eduflex, an ERP used by schools and colleges for fees, payroll and attendance.
2. Built React Native apps for attendance, assignments and appointments.

3. Built a native Android app so parents could track the school bus live.
-

PERSONAL PROJECTS:

1. **Ownerwise: Rental Management Platform (India)** <https://ownerwise.in>
Tech Stack: TypeScript | NestJS | PostgreSQL | Drizzle ORM | Redis | Bull | Next.js | React Native (Expo) | NativeWind | React Query | Zustand | Payload CMS | WhatsApp Cloud API | Razorpay | AWS S3 | Docker
 - Built a platform that helps Indian property owners rent to tenants safely, from invite to signed agreement.
 - Works through WhatsApp, a web app, and a mobile app.
 - Added tenant KYC, e-signed rental agreements, payments, and maintenance requests.
 - Built the backend in NestJS with Bull queues and deployed it on DigitalOcean with Docker and GitHub Actions.
2. **Crest (NextJS, NestJS, Passport, OAuth, & TypeScript):** A centralized global profile to share all your social links (Similar to Linktree). <https://crest-tan.vercel.app>
3. **Other projects:** <https://jeffinjose.dev/projects>