

David Ajayi

✉ david.ajayi.anu@gmail.com 🌐 thatjsprof 🐦 aj_davetech

PROFILE

Full Stack Software Engineer with 6+ years of experience building scalable, cloud-native applications across the JavaScript ecosystem. Proven expertise in architecting AWS-based infrastructure, creating open-source tools (Pully, Webplug), and leading impactful engineering projects in fintech and real-time messaging. Passionate about developer experience, automation, and systems design.

RELEVANT EXPERIENCE

Senior Software Engineer, Postploy

2025 - Present

- Architected and developed the entire product stack (Next.js, NestJS, PostgreSQL, Redis), deploying to AWS Lightsail with CI/CD via GitHub Actions and SSH.
- Built secure OAuth flows for TikTok, Twitter, LinkedIn, Facebook, and Instagram to connect users' social media accounts.
- Engineered a resilient content scheduler using BullMQ and Redis, pre-processing media 20 minutes before scheduled time with retry logic for platform reliability.
- Developed a TikTok AI slideshow generator that turns user prompts into carousel videos and images, using OpenAI and rendering media with React Konva and FFmpeg.
- Built an AI UGC + product demo video feature with video processing with FFmpeg, and server-side video generation progress updates using SSE.
- Integrated Google OAuth with PKCE flow via Supabase for secure and modern authentication.
- Implemented React Big Calendar to visualize scheduled and published posts for improved content planning.
- Automated infrastructure deployment using GitHub Actions CI/CD pipelines, pushing changes to a production-ready AWS Lightsail instance via SSH.
- Configured AWS S3 for file storage and used Resend + AWS SQS to queue and deliver transactional emails.
- Actively contributed to product strategy, including customer support, bug resolution, and user feedback loops to inform future features.
- Collaborated on marketing strategy and demo creation, shaping product positioning and brand visibility.

Senior Software Engineer, Fluna

2022 - 2025

- Building a centralized data platform to enable data-driven insights at Fluna (deployed using AWS CDK).
- Built the company's loan application flow to close financing deals of up to \$1m with 10 exporters.
- Built a WhatsApp chatbot using WATI for consolidating exchange rates from multiple sources.
- Consolidated the infrastructure for local/international payments into a central system using AWS SAM. This helped the company to pivot from using Integrated finance and save a monthly bill of \$3,000.
- Set up CI/CD using AWS code build and AWS Codepipeline to auto-deploy the CDK stack on GitHub code changes.
- Set up CI/CD using GitHub actions and AWS SAM.
- Led the team that built the multi-tenancy feature, allowing companies to grant access-based permissions to teams.
- Integrated mono and plaid to sync users' transactional data across their African and European bank accounts.

Creator, Software Engineer, Webplug 📧

2023 - 2024

- Created Webplug, a webhook as a service infrastructure deployable to AWS.
- Built a management UI using Shadcn/tailwind to view services, users, event types, endpoint subscriptions, and view message activity for endpoints across all users.
- Designed and orchestrated the build of the Webplug server using API Gateway, lambda functions, and lambda layers.
- Wrote SQL statements for database operations.
- Built the Webplug client SDK that enables users to communicate with the Webplug server (Javascript).

- Automated the deployment and teardown of the Webplug infrastructure (AWS CDK and SDK) by building a CLI application as well as the command to spin up the management UI.
- Wrote the technical case study for Webplug: <https://webhooks-plug.github.io/webhooks-plug-landing/> 
- Video Demo is available at <https://youtu.be/5Ns9REq0fLU?si=h0cBjSqO91peCeJq>

Co-Creator, Software Engineer, Pully

2023 - 2024

- Created Pully, an open-source framework for building real-time applications with in-transit message processing.
- Designed and orchestrated the build of Pully using Node JS, and AWS (CDK, ECR, ELB, ECS Fargate, Lambda, S3).
- Containerized the Pully server code for deployment to AWS Infrastructure (Docker, ECR, ECS).
- Made use of Redis socket io adapter to sync configuration changes across multiple pully server instances.
- Built the Pully client SDK that enables users to communicate with the Pully server (Javascript & CloudFront).
- Automated the deployment and teardown of the Pully infrastructure (AWS CDK and SDK).
- Led the build of the Pully CLI for deployment/teardown of the Pully infrastructure alongside Lambda management.
- Wrote the technical case study for Pully: <https://pully-infra.github.io/pully-landing> 

Software Engineer, Bodadmin

2021 - 2022

- Built the reporting portal that companies in Nigeria use to submit their yearly financial reports to the NCCG.
- Integrated endpoints to manage/sign/send reports to a regulator for processing, and make payments using Remita API.
- Used react optimization techniques such as useMemo, and code splitting to improve application performance by 25%.

Co-Founder, Software Engineer, Shipizzy

2019 - 2022

- Built user and admin portals for order fulfillment, tracking, and payments (Paystack, Flutterwave).
- Contributed to product marketing, user onboarding, and branding.

FullStack Engineer, Self-Employed

2019 - Present

- FeedPipe  - A tool to collect feedback directly into Slack, Jira, and Notion and view insights from your dashboard. Built using React and Apollo GraphQL.
- Wordle Clone  - This is a clone of the original Wordle game. Built with React and Tailwind.
- CodePlay  - A web-based coding environment built with React, ESBuild for bundling, and Monaco Editor as the code editor (the same one used by VSCode).
- Sorting Visualizer  - A visual representation of sorting algorithms. Bubble sort is currently implemented with the rest coming soon.

SKILLS

Languages & Frameworks: JavaScript, TypeScript, Node.js, React, Next.js, NestJS, SQL, Tailwind, Cursor AI

Cloud & DevOps: AWS (Lambda, Amplify, ECS, CDK, Cloud Formation, S3, DynamoDB, CloudFront, SAM, Lightsail), Docker, CI/CD, GitHub Actions, Serverless.

Databases: PostgreSQL, MongoDB, Redis

Other Tools: GraphQL, REST APIs, WebSockets, Prisma, Knex, Git

EDUCATION

Covenant University, Electrical and Electronics Engineering

2014 - 2020