Wojciech Bandzerewicz

HEAD OF ENGINEERING

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PROFESSIONAL SUMMARY

Engineering leader with a master's in Artificial Intelligence (King's College London) and five years shipping production software across TypeScript, Python, Java and SQL on AWS. At Ecograde I lead a cross-functional team of a product manager, a designer and qualified energy assessors and mentored 2 engineers: I set the technical direction and roadmap with product, run the assessor validation programme, and took the AI home-energy assessment platform from zero to a paid launch with 3 UK housing associations and several councils, reaching ~90% accuracy on core assessment fields against ~500 assessor-labelled properties. Hands-on: I architected the platform and own its delivery and releases. Earlier, I managed technical escalations for Fortune 500 stakeholders at husssl and ran regular code reviews in a team of 10+ engineers at Workfinder.

CORE COMPETENCIES

Engineering leadership | Mentoring engineers | Technical direction & roadmap | Cross-functional team leadership | Zero to paid launch | Stakeholder management | Delivery & release ownership | AI product validation | Code review & Agile delivery

WORK EXPERIENCE

Ecograde

2025 - Present

Head of Engineering

AI home-energy assessment platform for UK homeowners, retrofit assessors and housing associations: a Turborepo monorepo with a homeowner web app, an assessor app and shared packages (Next.js 15, React 19, TypeScript, Convex, Clerk, Stripe, Vercel).

- Lead a cross-functional team of a product manager, a designer and qualified energy assessors: set the technical direction and roadmap with product, brief and review design work, and run the assessor validation programme. Mentored 2 engineers.
- Took the product from zero to a paid launch with 3 UK housing associations and several councils: architected the platform (Next.js web app, assessor review app, Convex backend with a 24-table schema and real-time queries, mutations and actions, five shared packages) and own its delivery and releases.
- Reached ~90% accuracy on core assessment fields against a ground-truth dataset of ~500 assessor-labelled properties, by building the expert validation loop that feeds assessor corrections back into the model.
- Designed the multi-model AI pipeline: exterior photos are analysed in parallel with one vision call per image, then merged into a single EPC-style assessment by a larger model; interior walkthrough videos go through Gemini and equipment photos are identified and efficiency-rated. Every AI output is validated against a Zod schema.
- Built the assessor review app: review queues and batches, AI object detection with bounding boxes and image annotation, with blind comparison of AI results against qualified assessors.
- Speaker at EMEX 2026 (London, November 2026): "Accelerating Retrofit with AI".

InstillAI

10/2024 - 04/2025

Senior Front End Engineer

- Developed a full AI assistant that retrieves and processes data from uploaded files to give accurate, actionable answers.
- Implemented the Artifact feature: users upload files, which are automatically chunked, embedded into a vector store and retrieved for the assistant (retrieval-augmented generation).

Workfinder

03/2022 - 10/2024

Full Stack Developer

- Worked in a team of 10+ engineers in an Agile environment with Jira; ran regular code reviews and drove improvements to code quality and workflow.

- Developed a job search and matching platform using React and Django, improving match accuracy against targeted opportunities.
- Coordinated with QA to triage and prioritise reported issues, reducing open issues by 20%.

husssl

05/2022 - 10/2022

Technical Client Manager

Earlier experience

- Led development of several products end to end: system requirements, partner dependencies, workload balancing, implementation, testing, and configuration of metrics, alarms, monitors and dashboards.
- Managed technical escalations for clients including Fortune 500 stakeholders.

leep

01/2022 - 04/2022

Web Developer

Earlier experience

- Managed projects independently, from timelines and budgets to client communication and delivery.

Coltraco Ultrasonics

04/2021 - 10/2021

Full Stack Developer

- Built and maintained production web applications, optimising for scalability, performance and security.
- Improved SEO and user conversion using Google Analytics, increasing UK revenue by 21% in the first quarter.

PROJECTS

Rubber Ducky Labs Ltd

Own app studio

3 iOS apps published on the App Store: Neverthink (internet TV of hand-picked channels, gaining early organic traction), TerraInk (map posters from your runs) and Concrete Shelf (book log). TerraInk and Neverthink are also in Google Play beta.

React Native, Expo, React 19

EDUCATION

Master of Engineering, Artificial Intelligence King's College London

09/2019 - 09/2023

London

Developed a custom LLM model for financial advice | Won an in-house AI hackathon with a team | Best Final Year Project award (06/2022)

CERTIFICATIONS

AWS Certified Developer - Associate	AWS	04/2023
Google Cloud Big Data and Machine Learning	Google Cloud	03/2022
Adobe Certified Professional in Visual Design	Adobe	12/2022

SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL

Frontend & mobile: React 18/19, Next.js 15, React Native, Expo, React Three Fiber, Vite, TailwindCSS, React Router, Recharts

Backend: Node.js, Express, Django, Sequelize, Convex, Stripe, REST API design

Data: PostgreSQL, MySQL, schema design, Pandas, NumPy

Cloud / DevOps: AWS (S3, SQS, SNS, Lambda, Elastic Beanstalk, Batch, RDS, Secrets Manager, CloudWatch, IAM, EC2), Vercel, Docker, CircleCI, CI/CD, Google Cloud, pnpm + Turborepo

AI / ML: Multi-model vision pipelines, LLM application design, Anthropic SDK (tool use, vision), TensorFlow, MediaPipe

Observability & Testing: PostHog, Sentry, Jest, Puppeteer, visual regression, Testing Library, supertest, E2E automation

Ways of working: Agile, Jira, Git, code review, feature flags (Flagsmith), Auth0, Clerk, microservices, distributed systems

Spoken languages: English, Polish (professional proficiency or above)