

Ricardo Wagemaker

Edinburgh, UK | 07966272306 | wagemra@gmail.com

[\[Portfolio\]](#) | [\[LinkedIn\]](#) | [\[GitHub\]](#)

Professional Summary

I am a Platform Lead and hands-on Full-Stack Engineer with over 25 years of experience, including almost 17 years at NatWest Group. My career has a strong foundation in data protection, storage management and cyber resilience with a focus on modern platform strategy, cost management, and sustainable software engineering. As a Platform Lead, I successfully established and matured a specialized sustainability innovation team from a blank canvas within the technology division. This initiative drove innovation, resulting in the development of the multi-award-winning **NatWest Climate Dashboard**. Over a four-year period, I grew this team to manage a diverse portfolio of 13–15 distinct change streams, aligning technology and engineering capabilities with broader organizational sustainability goals. Today, I leverage decades of operational experience to champion sustainable software architectures, designs and integrate AI to build robust modern applications, and actively contribute to the open-source community on GitHub.

Core Competencies & Technical Skills

Leadership & Strategy

- Platform Leadership,
- Agile Methodologies, Product Ownership, Stakeholder Management
- Cost & Financial Planning, Risk Management
- People Management (leading a team of 15 engineers)
- Coaching & Mentoring
- Cross-functional Relationship Building
- Customer Experience Improvement
- Risk Management & Controls

Software Engineering

- Full-Stack Development: Go, Python, React, JavaScript, TypeScript, SQL & noSQL, Backstage, TechDocs, MCP creation and adoption
- Data Source Integration: Analysing and embedding enterprise data sources including Service Now, Splunk, and Flexera for reporting across domains
- Application and Solution Architecture: Design, plan, and architect complex systems
- Agile Execution: Incremental planning and agile deployment strategies

- API Design & Integration: fastAPI & GIN (Go)
- DevOps & Automation: CI/CD, GitHub workflow, and GitLab pipelines
- Sustainable Software Engineering and Green Architecture

AI & ML

- Agentic AI, Multi-step Reasoning Loops, AI Goals, Tools & Permissions, Task Persistence & Memory, Gemini Pro LLM, Ollama, Amazon Bedrock & Marketplace, Antigravity & GitHub Copilot, AWS Kiro, Vector Databases & RAG

Cloud & Infrastructure

- GCP / Firebase, AWS, AWS Amplify, Amazon S3, Docker, Terraform, Storage Architecture, CyberVault, PaaS / IaaS / SaaS (Software as a service)
- Infrastructure as a Service (IaaS)
- AWS Aurora, Kiro, GCP Firehosting, GCP Firestore
- Firebase Hosting
- CyberVault Implementation

Data & Databases

- PostgreSQL, MongoDB, NoSQL DynamoDB, SQLite, GCP Firestore, AWS Aurora

Tools & Ecosystems

- GitLab CI/CD, GitHub Actions, VSCode, DevTools, Google Firebase, AWS Amplify, NotebookLM, TechDocs, Backstage, AI MCP deployment, Kiro, Antigravity, NetBackup, LTO Tape Libraries
- Mongo(noSQL), PostgreSQL (PGVector), SQLite (sqlite-vec)
- Kiro, Antigravity, VSCode, Eclipse (Java)

Languages

- English
- Dutch
- Portuguese (Full Professional Proficiency)
- Spanish (Limited Working Proficiency)

Professional Experience

NatWest Group | Edinburgh, UK

Platform Lead of Sustainable Enterprise Solutions | Jan 2022 – Present

- Built a high-performing team from a blank canvas over the last 4 years, coaching 15

software engineers—including frontend, quality control, testing, and principal engineers—alongside a product owner, challenging them to unlock their individual potential.

- Delivered a portfolio of over 13 internal banking applications by blending hands-on software development with strong leadership, ideation, and people skills.
- Led the initial prototype development of *SkillsMatrix*, an internal application for technology and soft skills mapping, including role profiles and HR-agreed proficiency levels. This full-stack application was built with a **TypeScript/TSX** and **Node.js/Vite** frontend and a **Python/API** backend, supporting user/manager updates, approvals, and hierarchy-based reporting.
- Steered the end-to-end development of an award-winning climate dashboard and extensive enterprise API data banks.
- Oversee comprehensive platform strategy, balancing costs, transformation projects, and team coaching.
- Drive sustainable software engineering practices—reducing the architectural carbon footprint.
- Implementing Backstage for TechDocs for internal developer portals, alongside **MCP** (Model Context Protocol) deployments.
- Leading responsible in-house AI tooling to improve application features and developer efficiency.
- Proactively met up with local platform managers and worked together with feature teams to improve customer experience (Relationship Building).
- Recognized as a great manager with excellent Ourview scores last year; consistently supportive, respectful, diverse, and helpful (Leadership).
- Monthly DORA reporting, Infra Strategy Reporting, Climate Reporting, Cost Reporting.
- Direct application deployment across modern cloud environments, including IaaS, PaaS, and SaaS.
- Maintain and uphold rigorous risk control and compliance standards for all platform deployments.
- Continuously champion internal customer experience by collaborating with platform managers to streamline feature adoption and platform strategy.

Technologies: **fastAPI** · **PostgreSQL** · **Python** · **React** · AWS · Amplify · Amazon S3 · AI/ML · Backstage · TechDocs · AI MCP · Agile · DevTools

Head of Backup & Storage | 2018 – Jan 2022

- Product Owner for 34PB+ of online and offline storage across multiple locations.
- Achieved 99.98% data protection success rate — 20,000+ backups & 3.5PB on single weekends.
- Involved in contract deals over £100M+.
- Managed ~50 people across the UK and India.
- Led design and deployment of a highly secure CyberVault during large-scale storage migrations.
- Successfully led all internal and external auditing processes for 3 consecutive years.
- Coached 2 new managers on handling difficult individuals within the Storage & Backup team (Coaching).
- Achieved a 20% improvement in customer feedback through monthly review forms and received positive customer emails in the last year (Customer Service).
- Consistently achieved top Unit scores for risk control and compliance, maintaining a

low-RISK control of 2.0 (Risk Control).

Technical Backup Manager | 2012 – 2018

- Defined the overall backup strategy and delivered reliable backup solutions for the EMEA infrastructure.
- Spearheaded cost and finance planning for backup hardware, software licensing, and capacity growth.
- Led people management to grow team skills and ensure smooth operations.

Backup Specialist | July 2009 – 2012

- Provided expert-level administration for enterprise backup environments using NetBackup, Networker, DataDomain, and LTO Tape Libraries.

Senior Storage & Backup Consultant | 1995 – 2009

- T-Systems – Senior Storage Consultant (2007–2009)
- Atos Origin – Backup Consultant (2006)
- Centrica Plc – Senior Storage Support (2003–2006)
- Accenture – NetBackup / Storage Consultant (2001–2002)
- Symantec / Veritas – Technical Consultant (2000–2002)
- Legato Software – Support Analyst (1999–2000)
- Dell Computer – Network Support (1995–1999)

Open Source Contributions & Personal Projects

Passionate about designing and building useful applications in the open-source community, with a focus on tools that reduce computational needs and promote **green developer ecosystems**:

- **EasyEditor – AI-Powered Editor** ★ **Featured:** (TypeScript/Node.js) A professional, local-first Markdown editor built with **TypeScript/TSX** on a **Node.js/Vite** framework, featuring real-time previews, 130+ built-in features, and advanced diagram support (Mermaid, PlantUML). Fully integrated with AI and 8 specialist personas tailored for repo documentation tasks.
• <http://www.easyeditor.co.uk>
- **Terminal Intelligence (TI):** A lightweight, highly responsive, open-source CLI-based IDE written in Go. Features integrated **AI assistance** running Ollama, Gemini, Bedrock and other API based LLMs. Designed to reduce the energy footprint of heavy traditional IDEs.
• <https://gcclinux.github.io/terminal-intelligence/>
- **SCMD – AI-Powered CLI Search:** An AI-powered command knowledge base using semantic vector search as both a CLI and Web UI in Go. Integrates with PostgreSQL, SQLite, local Ollama models, and Google Gemini.

-  <https://github.com/gcclinux>

Education, Training & Certifications

Education

- Computer Science
- Completed A levels equivalent

Certifications & Ongoing Training

- AWS Certified AI Practitioner (AIF-C01) — In Progress
- Climate Change Transformation Program — University of Edinburgh (12 Weeks)
- Determining to Lead & Challenging Potential — Leadership Development
- Full Stack Bootcamp — Certification
- Java Bootcamp Course — Certification