# Adrian May

Functional Software Engineer | Haskell | AWS | AI/ML

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## SUMMARY

Functional software engineer with 25+ years in the industry. Six years of production Haskell, mostly on AWS, after decades of C++ and Java. AWS Certified Cloud Practitioner with recent AI/ML training from MIT. A track record of simplifying intractable systems and leading teams through the hard parts.

## HIGHLIGHTS

- Rebuilt a four-year codebase in 9 weeks and refactored it to 40% of its size (Least Authority).
- Traced a Kafka memory leak that had defeated the team to a one-line fix, by instrumenting the C library where Valgrind couldn't help (tiko).
- Replaced a four-year-old reporting system with essentially a single library function - later mandated company-wide (Red Embedded / DirecTV).
- Building Digital Life - a virtual machine for the Darwinian evolution of software.

## EXPERIENCE

### Platform Engineer - BLP

2026 - present

- Platform engineering across cloud infrastructure, tooling and developer experience.

### Haskell Developer - Least Authority

Private distributed storage (Tahoe-LAFS) | remote | 2024 - 2026

- Privacy-first storage grid in Haskell; mastered Reflex FRP where others had stalled, with noticeably better performance from far less code.

### Haskell Developer - tiko Energy Solutions

Energy-demand regulation | Zürich | 2022 - 2023

- Java-to-Haskell microservices port; got the client through a critical third-party qualification their own system had failed, and designed a DSL that decoupled the back-end from a still-changing front-end model.

### Haskell Development Team Leader - Tracsis

Rail software | Leeds | 2019 - 2022

- Hired as a developer, became the team's Haskell guru and was promoted to team lead and line manager; wrote a Haskell training course and mentored newcomers.
- Led a make-or-break competitive integration to on-time delivery against a hard deadline.

### Team Leader to Scrum Product Owner - Red Embedded Consulting

Set-top-box software (DirecTV) | Shipley, UK | 2015 - 2019

- Built strategic tooling for the bug-fixing team - a Jira prioritisation layer and scrum board, a broken-heap walker, a deadlock analyser, a log-categorising DSL, and a commit-correlation tool that prevented bugs before they were written - and was promoted to Scrum Product Owner.

### Earlier career - Siemens, Motorola, Jabil, MoD and others

UK, Germany & Taiwan

- Coding, line management, requirements engineering, IT-strategy consulting and two product ventures across energy, embedded, mobile, telecoms and TV. First professional coding was MoD-sponsored research into flight simulation and neural networks.

## PROJECTS

- Git In Straight Lines (GISL) - my own product: a Git history-graph viewer that draws readable, column-aligned graphs and infers each commit's branch-at-the-time, so teams keep full history without clutter. Haskell, React, serverless AWS.
- Digital Life (github.com/adrianmay/digilife) - a virtual machine for the Darwinian evolution of software.
- Rhaboo (github.com/adrianmay/rhaboo) - near-transparent persistence for JavaScript objects.

## TECHNICAL SKILLS

Haskell | Functional TypeScript | Python | AWS (Certified Cloud Practitioner; Lambda, API Gateway,

DynamoDB, CDK, SST) | Serverless | React | Vue | Docker | Kubernetes | Nix | Linux | ML/AI (TensorFlow, Keras, scikit-learn) | Data science (pandas, numpy) | Distributed systems | Functional programming | Git | Scrum / Tech Lead

## EDUCATION & CREDENTIALS

- MSc Intelligent Systems (AI & Cognitive Psychology) - Brunel University
- BA (Hons) Physics - University of Oxford
- MIT - Applied Data Science Program: Leveraging AI for Effective Decision-Making
- AWS Certified Cloud Practitioner
- TQUK Level 2 Certificate in Principles of Team Leading

## LANGUAGES

English (native), German (advanced)