Robert Fairley

Software Developer · Full-Stack · Systems Design · Applications

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https://robertfairley.com · https://github.com/robert-fairley

Profile

10+ years building and shipping production software. Background spans high-throughput data systems, editorial publishing platforms, and independent product work across the web, mobile, and desktop.

Experience

Software Developer · Lleu Labs Inc. · Hamilton, ON
2024 to Present
https://lleulabs.com

Independent software practice, part-time, covering web and audio technology consultancy and R&D. Handles the full project lifecycle: requirements, architecture, development, deployment, and client communication.

Software Developer · Orderful · Vancouver, BC (Remote)
2021 to 2024

Full-stack development on a high-throughput logistics communications platform built around EDI (Electronic Data Interchange), the standardized data format used across global supply chain and shipping operations. Built and maintained communication channel systems for integration with modern and legacy logistics infrastructure including AS2, VAN protocols.

- Built systems for high-volume, time-sensitive data exchange
- Rigorous testing culture: high unit and integration test coverage in an industry where data correctness is critical to operations

Software Developer · St. Joseph Communications / Rogers Media · Toronto, ON
2016 to 2021

Full-stack web development supporting editorial and design teams across major Canadian magazine titles (Maclean's, Chatelaine, FASHION, Today's Parent) and Rogers Radio. Built digital publishing pipelines, editorial tooling, web features, and workflow automation.

- **Apple News integration:** Designed and built a production publishing system for automated intake, reformatting, and publication of bi-weekly Maclean's issues on Apple News. Built a companion desktop editor for direct content editing and publication by editorial. Worked with Apple and a cross-functional development team on the full publishing pipeline.

Open Source

apple-news-format · TypeScript Types Library
https://github.com/Robert-Fairley/apple-news-format
https://npmjs.com/package/apple-news-format

TypeScript types package for Apple News JSON format implementations. Published to NPM. Built during the Apple News pipeline work at Rogers Media and SJC.

Selected Projects

Clar · Audio Project Management and Master File Processing Tool
2026 to Present
https://clar.lleulabs.com

Desktop application for musicians, producers, audio researchers/hobbyists, and small record labels. Automates audio conversion and handles metadata across multiple release formats. Technologies: Tauri, Rust, TypeScript, React, FFmpeg

Astarte · iOS DAW Controller
https://astarte.burns.fm

Wireless MIDI controller (MCU protocol over WiFi) for DAW control, built to fill a gap in available mobile form factors. Written in Swift, deployed to the App Store, in active personal use. Technologies: Xcode, Swift, Swift UI

Technical Skills

Programming and Development

TypeScript, JavaScript (ES6+), Node.js, NestJS, Python, Ruby, React, Next.js, Remix, Vue, Swift/iOS, Go, C#, HTML5, CSS3, Tailwind CSS, shadcn/Radix UI, Shell, SQL (PostgreSQL, MySQL), MongoDB, Redis, AI/LLM (Claude, Copilot, Zed)

Infrastructure and Deployment

AWS, OVH, Digital Ocean, Linux server administration, CI/CD, Docker, Self-hosted systems

Other

Git, API integration, Agile/Scrum, Enfocus Switch, Adobe Creative Suite/AEM (CMS), Accessible web development (ARIA, WCAG), Figma, Web Audio API, MIDI/MCU protocols

Education and Recognition

- **United Nations Online Volunteering**, Software development volunteer work with UN-aligned organizations, CMS platform development, 2013 to 2014
- **University of Toronto,** Bachelor of Arts (incomplete), Coursework in English Literature, Classics, Linguistics, and Art History
- **FACTOR Canada**, Artist Development Grant Recipient, 2022, Audio production