

# DAVID LOWENFELS

+44 7736 979 586 | [david.lowenfels@gmail.com](mailto:david.lowenfels@gmail.com) | Northumberland, UK | <http://github.com/dfl>

Software developer with 20 years experience across web, mobile, and embedded systems. Deep expertise in **Ruby on Rails** from Silicon Valley's Web 2.0 boom through to modern startups. Skilled in full-stack development, system architecture, and mentoring engineers. Known for empathetic leadership, creative problem-solving, and driving technical excellence in collaborative teams.

## TECHNICAL SKILLS

**Languages:** Ruby, JavaScript, Python, C/C++, Swift, Java, Lisp, x86 assembler.

**Frameworks & Tools:** Rails, Hotwire/Stimulus, Node.js, React (learning), jQuery, TailwindCSS, Git, CI/CD (Github Actions), RSpec/Minitest/Cucumber, Docker, Heroku.

**Practices:** Agile/XP, TDD, Pair Programming, Design Patterns, Certified Scrum Master.

**Infrastructure:** AWS, PostgreSQL, Redis, Sidekiq/GoodJob, Elasticsearch, REST APIs, Payment Gateways.

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## PROFESSIONAL EXPERIENCE

**Senior Rails Developer** — *Homey.co.uk (Remote Contract)* | Q1-Q2 2025

- Built product features and fixed critical bugs in a cross-functional team of senior developers, designers, and QA.
- Custom document template editor with Trix, IP geofencing and logging for security, and JSON validation for webhook control panel for easier admin data entry.
- Improved **Scrum process and dev infrastructure**, enhancing team culture and collaboration.

*Rails, Stimulus, JavaScript, Rspec, Tailwind, 3rd party APIs, Sidekiq, Scrum, Heroku*

**Senior Developer** — *No Logo Media, Edinburgh, UK* | 2023 – 2025

- Pioneered **AI features** for customer chatbots, automatic data tagging, and admin reporting.
- Refactored legacy codebase using design patterns: improved modularity and maintainability.
- Established **CI/CD pipeline & staging server**, reducing deployment risk and downtime.
- Mentored product team on user stories, sprint planning, test coverage, web scraping.

*Rails, Hotwire, TailwindCSS, OpenAI LLM API, GoodJob, Agile*

**Lead Architect (HW/SW)** — *MindSpa, San Rafael, CA* | 2022 – 2023

- Designed & prototyped a consumer **brainwave entrainment device** with Shenzhen team.
- Created a custom interpreter & multi-channel sequencer for 12 user programs stored on EEPROM.

*Arduino hardware, C++, Audio DSP, RGB LEDs*

## ENTREPRENEURIAL EXPERIENCE

**Solo Founder / CTO** — *Pranawave, San Francisco, CA* | 2017 – 2019

- Created healthtech products for **HRV biofeedback** (desktop USB sensor & **iOS** app).
- Developed custom algorithms for real-time biosignal acquisition (camera-based PPG).

*Ruby, Swift, Java, C++, DSP, HRV*

**Co-Founder, Manager, Principal Rails Developer/Mentor**

— *Internaut Design, San Francisco, CA* | 2006 - 2016

- Built MVPs and SaaS products for startups during Silicon Valley's Web 2.0 era.
- Served as Scrum Master / Project Manager for a team of 4 developers.
- Mentored engineers and product owners, hosted **SF Ruby Meetup**, and helped scale Rails adoption across the community.

### Key Highlights at Internaut:

- **ScrumNinja.com** (2008–2013): Spun off internal tool into profitable SaaS with REST API and drag-and-drop UI. *Rails, JavaScript, CSS, jQuery, Payments*
- **Navera** (2013–2014): Built extensible DSL + APIs for insurance data entry; contributed to acquisition success.
- **Distributed Finance Corp.** (2015–2016): Large-team collaboration on commercial real estate app across time zones *Rails, JRuby*
- **LinkedIn** (2008): Helped launch social events feature used by millions
  - *JavaScript, Rails microservice, OAuth, OpenSocial API*
- Other clients: **Pioneer Electronics** (SyncTV MVP), **Affinity Labs/Monster.com**, SumZero, StartupAgents, PhotoVoo, Trekaroo, Three Stone Hearth.

**Independent Software Developer** — *San Francisco Bay Area, CA* | 2003 – 2006

Projects included e-commerce, DSP consulting, and embedded systems. Notable clients: **TimewARP 2600** audio synthesizer plugin (C++/VST), MP34u.com.

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## EDUCATION

- **Massachusetts Institute of Technology (MIT)**
  - B.Sc. Electrical Engineering & Computer Science, Music.
  - M.Eng. Electrical Engineering & Computer Science
- **Stanford University** - M.A. Music, Science & Technology

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## MENTORSHIP & TEACHING

- Mentor @ Internaut Design (2007–2014)
- TA & Mentor @ Dev BootCamp SF (2013–2014)
- Guest Lecturer, Stanford University (2005–2007)