

# DAVID LOWENFELS

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## PROFESSIONAL SUMMARY

Product-minded software polyglot 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 SaaS products. Skilled in full-stack development, system architecture, and mentoring engineers. Known for empathetic leadership, creative problem-solving, and driving technical excellence in collaborative teams.

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## TECHNICAL SKILLS

**Languages:** Ruby, JavaScript, Python, C/C++, Swift, Java, Lisp, x86 Assembly, shell scripting.

**Frameworks & Libraries:** Rails, Hotwire/Stimulus, Node.js, React (learning), jQuery, TailwindCSS.

**Development Tools:** Git, GitHub Actions, CI/CD, RSpec/Minitest/Cucumber, Docker.

**Infrastructure & Databases:** AWS, Heroku, PostgreSQL, Redis, Sidekiq/GoodJob, Elasticsearch.

**Methodologies:** Agile/XP, Scrum, TDD, Pair Programming, OOP Design Patterns, SOLID.

**APIs & Integration:** RESTful APIs, Payment Gateways, OAuth, OpenSocial, 3rd Party APIs.

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## PROFESSIONAL EXPERIENCE

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

- Delivered critical product features and resolved high-priority bugs within a cross-functional team of senior developers, designers, and QA specialists.
- Developed custom document template editor with Trix, implemented IP geofencing with security logging, and built JSON validation for webhook control panels.
- Improved **Scrum process and dev infrastructure**, enhancing team culture and collaboration.

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

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

- Pioneered **AI features** for customer chatbots, automatic data tagging, and admin reporting.
- Led legacy codebase refactoring, improving modularity and maintainability, and increasing test coverage by 300%.
- Established **CI/CD pipeline & staging server**, reducing deployment risk and production downtime.
- Mentored product team on agile practices, user stories, and automated testing.

*Rails, Hotwire, TailwindCSS, OpenAI LLM API, GoodJob, Agile, Web Scraping, Heroku*

**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*

**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 / CTO** — *ScrumNinja, San Francisco, CA* | 2008 – 2013

- Ideated and bootstrapped Internaut's internal tool into a profitable **SaaS product**.
- Built complex drag-and-drop UI (jQuery) with **Scrum/Kanban card wall** features.
- Led customer support, UX testing, and product development.
- Deployed a **REST API** for webhook integrations.
- Implemented **production caching** and performance tuning with Redis and Heroku.  
*Rails, Javascript, CI/CD, Credit Card Payments*

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

**Co-Founder, Principal Developer/Mentor, Team Lead/Manager**

- Built MVPs for startups during Silicon Valley's Web 2.0 era.
- Served as Scrum Master / Project Manager for our team of 4 developers and design partners.
- Mentored engineers and product owners, hosted **SF Ruby Meetup**, a tech blog, evangelized **Rails and TDD** across the community.

#### **Selected Clients:**

- **Navera** (2013–2014): Built extensible DSL + APIs for insurance data entry; contributed to acquisition success.
- **Distributed Finance Corp.** (2015–2016): Large-scale team collaboration on a commercial real estate finance app. [*Rails, JRuby*]
- **LinkedIn** (2008): Collaborated with an in-house team to launch a social events platform feature used by millions. [*JavaScript, Rails microservice, OAuth, OpenSocial API*]
- **Pioneer Electronics** (2006): MVP for SyncTV, a browser-based TV app. [*Rails, DRM*]
- **Monster.com**, SumZero, StartupAgents, PhotoVoo, Trekaroo, Three Stone Hearth.

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

Projects included: an e-commerce website for handbags (PayPal integration with PHP), audio DSP for the **TimewARP 2600** VST plugin (C++), development on [MP34u.com](http://MP34u.com) (Linux/Apache/MySQL/PHP).

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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**

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| • Engineering Mentor | Internaut Design    | 2007–2014 |
| • TA & Mentor,       | Dev BootCamp SF     | 2013–2014 |
| • Guest Lecturer,    | Stanford University | 2005–2007 |