

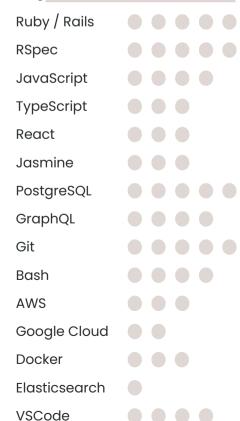
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Education

BS Computer Science UCSB

3.85 GPA High Honors, Distinction in Major

Expertise



MATTHEW GREENFIELD

Backend Software Engineer

Profile

I'm a Ruby on Rails developer driven by a love for process optimization, documentation, automation, developer ergonomics, and making life more enjoyable through software. I am also a devoted husband and a father of two human daughters and one canine daughter. Most of my free time is spent with my family, but I still sneak in time to write CLIs and automation scripts using Apple Shortcuts, Ruby, LLM APIs, and other various technologies. My thoughts are all in Markdown.

Work Experience

Medely 2022 - 2025

Senior Backend Engineer

- · Translated product requirements to engineering requirements
- Regularly performed software deployments
- Developed and maintained endpoints, services, models, and tracking events for Rails API and corresponding GraphQL interface
- Overhauled email templating process, drastically decreasing complexity and increasing readability and maintainability
- Developed a suite of developer tools including data backup/restoration, encryption/decryption, connecting local machine to staging environments, and automating ticket lifecycle
- Created an auditing module to perform dry runs within a block of code, roll changes back, and group associated actions and making them available in Metabase
- Served on committee to organize and run Medely's first Hackathon
- Authored extensive documentation on standard operating procedures, software specifications, and developer tutorials
- Designed and implemented customer data migration scripts, formalized request process, executed hundreds of complex migrations, designed an admin facing tool, implemented the backend, gave a demo, and provided tutorials and documentation
- Designed and implemented a data import framework with a custom DSL to easily generate templates with data validation and examples, asynchronous queuing, and success/error reporting

Teladoc Health

2015 - 2022

Software Engineer III

- Developed patient history, diagnosis, and workflow platform with EHR data integration
- Following a contract ending abruptly, with 2 other developers and 3 months to
 migrate customers, designed and recreated a replacement patient history
 templating engine with configurable controls, conditional visibility, adjustable
 layouts, auditing, notification, format translation, and data integration.
 Received "Above & Beyond" award
- Developed a secure, high-resolution, high-reliability video conferencing platform for virtual patient consultations
- Created a custom component, data-binding, and PubSub framework for rendering controls over WebSockets to allow multiple users to edit patient data simultaneously (we called it "Jankular" for "Janky Angular")
- Redesigned EHR data integration systems to allow easy creation, customization, and version control



Ruby Gems

omg-attrs

Query Ruby object attributes and associations similar to ActiveRecord



omgmini.link/gh-attrs



omgmini.link/rg-attrs

omg-audit-group

Perform dry runs of transactions with grouped audits for further review



omgmini.link/gh-ag



omgmini.link/rg-ag

omg-thor-ext

A copy of <u>Matt Brictson's code</u> to make Thor behave like a typical CLI



omgmini.link/gh-thor



omgmini.link/rg-thor

Hobbies

- · Weight lifting
- Meditation / Yoga
- CLI and script development
- Documentation
- Listening to fiction and nonfiction audiobooks
- Having dance parties and playing "The Floor is Lava" with my girls

MATTHEW GREENFIELD

⊞ Work Experience (Continued)

Yardi Systems

2013 - 2015

Software Engineer

- Expanded X12 EDI parsing and translation system for data exchanges between various systems and formats
- Developed controllers, views, and API adapters for native mobile application
- Designed and developed a responsive web application to ensure a consistent user experience across mobile devices

Mosaic Network Inc.

2008 - 2013

Software Engineer

- Collaborated with customers to design, refine, and implement feature requirements, ensuring solutions aligned with their needs
- Developed detailed engineering specifications, delegated tasks, and implemented full-stack modules tailored to customer requirements
- Managed schema-mapping, translation, and importation of customer databases from previous vendors, ensuring data integrity and smooth transitions
- · Acted as resident IT guy and water-dispenser-filler-upper

A Few Personal projects

Soccer Credential Scraper

As a volunteer head coach and referee for my daughters' soccer teams, I discovered that tracking volunteer training compliance required *hours* of manual data entry *each week*.

With no API available, I made a webdriver-based scraper using the <u>page object model</u> and <u>action class</u> patterns to gather data, cache it locally as JSON, update a shared Google Sheet, and log changes made each run. During the soccer season, this scraper eachs morning, saving 3+ hours per week—a fortune in volunteer time.

AI-Powered Document Repository

I maintain a document repository with 1,700+ hand-typed markdown files, covering journal entries, meeting notes, cheatsheets, software design, cooking recipes, and more. To efficiently manage and extract insights from this vast amount of text, I built a Ruby CLI leveraging:

- Thor command line interface (CLI)
- <u>Langchainrb</u> LLM message chaining
- Kramdown Markdown/YAML parser
- <u>Pgvector</u> vector database for <u>RAG</u>

This allows me to make requests like:

- Renames files in "preschool_invoices" to follow pattern "invoice.<month>.pdf"
- Read files in "journals" and tell me what my average energy level was in May
- Read files in "recipes" and pick random recipes using chicken and potatoes

Not only does this save me time, but it's also incredibly fun to build and use.