

Aaron Hill

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Senior Ruby / Rails Engineer

Ithaca, NY | Remote | 765.969.4652

Summary

Senior software engineer with 20+ years of experience building and maintaining high-throughput backend systems in Ruby on Rails. Strong track record in performance optimization, test-driven development, accessibility compliance, and mentoring engineers at all levels. Experienced in agile teams delivering at scale.

Technical Skills

Languages: Ruby, JavaScript, HTML, SCSS/CSS, SQL

Frameworks: Ruby on Rails, RSpec, Capybara, Sidekiq/ActiveJob, Kafka, jQuery

Databases: PostgreSQL, MySQL, SQLite, Oracle, MSSQL, Redis

Infrastructure: Git, GitHub Actions, Jenkins, Heroku, AWS (S3, EC2), Docker (development environments), Honeycomb, Bugsnag, New Relic

Practices: REST API design & integration, Agile (Scrum & Continuous Delivery), TDD, Section 508 Accessibility, Code Review, Technical Mentorship

Experience

FlyBuy (Radius Networks) | Senior Rails Engineer

2021 - 2026 | Remote

- Maintained Rails monolith providing logistics coordination for mobile retail: high-velocity async job processing, Kafka message pipelines, microservices, and distributed embedded device orchestration.
- Optimized ETA calculation algorithm, reducing external API calls by ~50%
- Co-authored US Patent US20260087445A1- probabilistic location-based event triggering using ImageMagick to store data in RGBa image channels
- Oversaw engineering interns; trained cohort from no Rails experience to independent ticket delivery in 6 weeks
- Led code review with emphasis on readability, maintainability, and pragmatic performance optimization

DID(it) Global Team (via Sevatec / Perspecta) | Senior Rails Engineer

2018-19, 2020-21 | Remote Contract Positions | Public Trust Clearance (SF-85)

- Built and maintained Rails services used by USCIS Immigration and Asylum officers in refugee case processing workflow
- Implemented Kafka-based inter-departmental messaging for case coordination
- Optimized critical SQL queries, reducing job processing time from ~50min to < 3min
- Partnered with in-house Section 508 experts on accessibility audits and remediations
- Contributed to React front-end applications backed by Rails APIs

Bold Penguin | Senior Software Engineer

2019 - 2020 | Remote

- Developed Rails microservices for a commercial insurance decision engine
- Refactored caching layer, reducing Redis memory footprint by 90%

Cornell University, School of Hotel Administration | Web Programmer / Analyst III

2010 - 2018 | Ithaca, NY

- Built internal Rails applications, including a private alumni community platform, and a reviews & testimonials system for certificate and executive education programs.
- Wrote Ruby scripts to automate server-side analysis and data migration tasks
- Led project to re-brand/migrate entire website (~5k pages), coordinating with Marketing & Communications and rest of team; successful launch after 8 months
- Consulted with Communications on Google Analytics instrumentation for marketing insights.

Indiana University | Web Application Specialist

2006 - 2010 | Richmond, IN

- Built and maintained public and private-facing websites and applications built in PHP
- Oversaw two full re-designs of public-facing web properties, including full IA re-organization
- Worked directly with central university accessibility experts to improve accessibility of sites

City of Richmond Municipality | Technician & SysAdmin

2004 - 2006 | Richmond, IN

- Primarily provided support and technical repair of city-wide computer systems
- Rebuilt city website to incorporate novel database-driven resources including bespoke-developed CMS
- Ingested full content of City Legal Code into a fulltext searchable MySQL database, including keywords, to allow citizens more direct access to the laws that govern them

Open Source & Published Works

Human Essentials | Project Lead | 2016 - 2020 | [github/rubyforgood/human-essentials](https://github.com/rubyforgood/human-essentials)

Rails-based multi-tenant inventory management platform for diaper banks, recognized by the National Diaper Bank Network as the de facto standard solution.

- Managed ~200 contributors across 6 continents; oversaw issue triage, roadmapping, code review, and stakeholder communication
- [Presented at the National Diaper Bank Network annual conference](#) (2018, 2019)

US Patent [US20260087445A1](#) | Co-author | Filed 2025 | [US Patent](#)

“Probabilistic Event Triggering Using Location Data”

<https://patents.google.com/patent/US20260087445A1/en>

DrunkenUX / Co-Host | 2018 - 2023 | [Drunken UX on Spotify](#)

Co-hosted a podcast covering web development, UX, accessibility, and developer culture; 100+ episodes spanning 5 years.

Education

Indiana University / B.S. Natural Science & Mathematics

Interdisciplinary focus: Informatics & Chemistry. Coursework in Data Structures & Algorithms, OOP, Distributed Computing, early machine learning / data-mining. Outstanding Student in Chemistry; TA for Organic Chemistry. Graduated with distinction.

IvyTech Community College / A.S. Accounting

Graduated with highest honors. VITA volunteer (community tax filing assistance).