

Lovell McIlwain

Full-Stack Engineer | Ruby on Rails | React | DevOps Enthusiast

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Agile Full-Stack Software Engineer specializing in Ruby on Rails and React, with SaaS platform experience and a growing focus on cloud infrastructure and DevOps practices. Proven success collaborating across product and engineering teams. Passionate about building clean, maintainable systems that deliver value quickly.

Technical Skills

- **Languages/Scripts:** Ruby, JavaScript (ES6, CoffeeScript, jQuery), SASS
- **Frameworks:** Ruby on Rails, React, Redux, Restful APIs, RSpec, Minitest, Cucumber, ModuleJS
- **Libraries:** Acts As State Machine, Resque, React Hook Form, React Select, Yup, Capistrano, Capybara, Class Names
- **AI Tools:** ChatGPT, Claude.ai, CoPilot
- **Platforms/Servers:** MacOS, Linux, AWS (S3, EC2, RDS), GitHub, GitLab
- **Databases:** MySQL, MariaDB, SQLite, Redis, JSON-Server
- **Coursework:** DevOps Focus

Experience

Concept3D Inc.

Full Stack Engineer

Denver, CO - Remote

January 2018 – February 2025

- Developed and maintained Localist event management SaaS platform using Ruby on Rails, JavaScript, React, and MySQL.
- Key contributor in conversion of the authorization system to role-based access control, giving administrators more granular permissions for their users.
- Implemented customer-facing templates, allowing administrators to customize the look and feel of their platform.
- Co-developed email campaign module, allowing administrators to schedule event outreach to specific lists of attendees.
- Led development of event promotion module, which was critical to coordinators' ability to broadcast events through channels like email, LinkedIn, or X.
- Created RESTful APIs for event data extraction to CSV or third-party systems like WordPress and Drupal to further facilitate event outreach.
- Built administrative interfaces with CRUD operations, focusing on user experience, improving workflows by 30%.
- Collaborated with Customer Success to help maintain a 90% first-response resolution rate on technical issues.
- Partnered with cross-functional teams to align technical solutions with business objectives through prototypes and MVP testing.

No.Inc

Full Stack Engineer/Application Owner

Baltimore, MD

July 2017 – January 2018

- Took ownership of Write The World SaaS application, utilizing Ruby on Rails, JavaScript, and AWS (EC2, RDS, and S3).
- Enhanced user experience through EC2 instance upgrades, increasing performance by 40%.
- Introduced staging environment to improve stakeholder collaboration and feature comprehension.
- Secured Capistrano deployments by creating version-controlled deployment templates for all configs, including nginx, unicorn, and monit.
- Collaborated with leadership on new feature roadmap strategies to boost adoption and growth.

Teaching Strategies

Full Stack Developer

Bethesda, MD

March 2016 – June 2017

- Developer on flagship Teaching Strategies SaaS application using ColdFusion, Ruby on Rails, React, and MySQL.
- Enhanced teacher onboarding and student assessment features based on the product roadmap and UI designs.
- Architected, prototyped, and implemented Cucumber front-end test framework, reducing front-end regressions by 23%.
- Encouraged knowledge sharing through code reviews and pair programming, fostering developer growth.
- Partnered with support teams to ensure timely resolution of customer issues.

Assoc. of Schools and Programs of Public Health (ASPPH)

Full Stack Development Specialist

Washington, D.C.

February 2014 – February 2016

- Lead developer of next-generation SaaS applications using Ruby on Rails, JavaScript, and AWS (EC2 and RDS).
- Architected and implemented communications portal for centralizing staff-student outreach, including email notifications and custom authentication consistent with UI designs.
- Collaborated closely with DevOps team to create build processes for web application deployments, including provisioning and backup strategies.
- Mentored junior developers, encouraging growth and communication, leading to enhanced team productivity.
- Worked with leadership to implement additional features as requested, driving application adoption.

Education & Trainings

- University of Phoenix – B.S. Information Technology – Spring 2012

Course Work

- Docker Basics
- Golang Basics
- Jenkins Basics
- Jenkins Pipelines
- Kubernetes Basics
- Mastering Generative AI with OpenAI
- Prometheus Basics (Certified Associate)
- Python Basics
- Shell Scripting Basics
- Terraform Basics