

## Lovell McIlwain

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

📍 Greenbelt, MD | ✉️ [lovell.mcilwain@gmail.com](mailto:lovell.mcilwain@gmail.com) | ☎️ 240-391-8612 | 🌐 LinkedIn | 🌐 GitHub | 🌐 Github.io

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, Playbook
- **AI Tools:** ChatGPT, Claude.ai, CoPilot, Warp, Cursor
- **Platforms/Servers:** MacOS, Linux, AWS (S3, EC2, RDS), GitHub, GitLab
- **Databases:** MySQL, MariaDB, SQLite, Redis, JSON-Server
- **Coursework:** DevOps Focus

## Experience

### Power Home Remodeling

Philadelphia, PA - Remote

#### Full Stack Engineer (Nitro/Tempo)

May 2025 – Current

- Developed and enhanced component-based Rails applications: Nitro (staff operations, engagement, and project management) and Tempo (consumer financing for home improvement projects).
- Maintained and improved workforce domain features for Brand and Digital Marketing Partners, enhancing functionality and user experience.
- Co-developed the Unexpected Allies component, enabling staff to nominate customers for special recognition.
- Improved special sign-up workflow and stabilized form submissions, increasing reliability and success rates; built a user-friendly CRUD interface for managing sign-ups.
- Optimized APIs and Swagger documentation, improving developer efficiency and integration clarity.
- Refactored and analyzed Digital Marketing Partners reporting module, ensuring stakeholders receive accurate and actionable insights.
- Built custom web interfaces integrated with the Nortridge Loan System (NLS), giving users more control over borrower management, payment processing, and loan status updates via APIs.
- Implemented reporting and analytics dashboards using Talkbox (Asterisk-powered VoIP), improving call center visibility and enabling data-driven operational decisions.

### Concept3D Inc.

Denver, CO - Remote

#### Full Stack Engineer

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**

**Baltimore, MD**

### **Full Stack Engineer/Application Owner**

**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**

**Bethesda, MD**

### **Full Stack Developer**

**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)**

**Washington, D.C.**

### **Full Stack Development Specialist**

**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