

# Neil Hendren

Versatile Fullstack Software Engineer | Chemical/Bio Engineer | Ruby | JavaScript  
neil.hendren@gmail.com • 719-651-1928 • [linkedin.com/in/neilhendren/](https://www.linkedin.com/in/neilhendren/) • [github.com/NeilTheSeal](https://github.com/NeilTheSeal)

## Summary

---

Software Engineer with over a decade of experience, blending expertise in web development, database management, and academic research to pioneer modern engineering solutions. Leveraging skills in Ruby on Rails, PostgreSQL, JavaScript, and a suite of other programming languages, I am committed to driving future advancements in technology through continuous learning and application of cutting-edge tech.

## Professional Experience

---

**Front-End Software Engineer** @ University of Colorado Boulder, Boulder, CO.

03/2018 - Present

- Designed 500+ page [educational website](#) in collaboration with chemical engineering research professor
- Authored scientific simulations and virtual labs, used by thousands of students worldwide

## Select Projects

---

**Catalytic Reactor Virtual Laboratory** | [Deployed Application](#) | Private Repository | [Publication](#)

**Tech:** Express.js | PostgreSQL | Heroku

Graduate-level laboratory assignment to characterize chemical reaction kinetics by nonlinear regression

- Utilized Express.js and PostgreSQL to manage credentials and obfuscate equations used in the assignment

**World Geography Quiz** | [Deployed Application](#) | [GitHub Repository](#)

**Tech:** Ruby | Rails | RSpec | Capybara | PostgreSQL | REST API

Academic project that dynamically generates world geography quizzes from a data bank and records high scores

- Deployed a Rails application using OAuth2 for credentials and REST for communication between FE and BE

**LearnChemE Front-End Simulations** | [Deployed Application](#) | [GitHub Repository](#)

**Tech:** HTML5 | CSS | JavaScript | Bootstrap | Node.js | Webpack | Responsive Design

Collection of embeddable scientific simulations used in the instruction of engineering topics

- Authored more than 50 interactive simulations that accurately depict scientific processes

**RuneFall** | [Deployed Application](#) | [GitHub Repository](#)

**Tech:** React.js | React Router | Rails | PostgreSQL | Tailwind

A search engine for playing cards used in the game Runeterra

- Designed a responsive front-end and RESTful back-end using Rails

## Technical Skills

---

**Languages/frameworks:** Ruby, Rails, ActiveRecord, JavaScript ES6, SQL, HTML5, CSS, React.js

**Testing:** Test Driven Development (TDD), RSpec, FactoryBot, Capybara, Orderly, WebMock, VCR, Cypress

**Tools/Workflow:** Git, GitHub, GitHub Pages, Heroku, Postman, REST APIs, Postico, NPM

## Education

---

**Accredited Certificate in Backend Engineering**

08/2024

Turing School of Software and Design

**B.S. Chemical and Biological Engineering**

05/2017

University of Colorado, Boulder