

David Polcari

Austin, TX 78749 | 214-868-2494 | dpolcari18@gmail.com
[Portfolio](#) | [Github](#) | [Medium](#) | [LinkedIn](#) | Authorized to work in the US

FULLSTACK SOFTWARE ENGINEER

Fullstack Software Engineer who is passionate about developing new tools to solve real peoples, real world problems. Bring a global perspective thanks to military family, studying abroad and international travels. Strives to never stop learning and enjoys being challenged.

TECHNICAL SKILLS

JavaScript, Ruby, Rails, React, Redux, Bootstrap, Semantic, HTML, CSS, Spotfire, SQL, MVC, REST, OOP

TECHNICAL PROJECTS

weDrive - [Link](#) | Github [Frontend](#) [Backend](#) | [Demo](#)

Journey management application aimed at reducing the risks associated with driving using React/Redux and Rails

- Embedded fully interactive MapQuest map using their JavaScript SDK with routing and real time traffic conditions
- Connected openweather API to supply weather reports for origin and destination of trip
- Made use of ActionMailer in Rails for emergency contact notifications to increase transparency while traveling
- Utilized JSON Web Tokens for authorization and bcrypt for password hashing to increase security
- Employed Rails as an API using Postgresql database and MVC pattern for the backend
- Implemented client side routing using React Router

The Stonk Market - [Github](#) | [Demo](#)

Light weight stock market trading platform that supplies real time stock prices with Vanilla JavaScript and Rails

- Created using vanilla JavaScript and Rails as an API to handle full CRUD actions for buying/selling "stocks"
- Executed responsive search feature with drop down results that updates on each keystroke
- Relied on Finnhub.io API for stock market data including comprehensive company list and real time stock prices

Fly-By - [Github](#)

Centralized marketplace for finding and purchasing "flights" built with Ruby on Rails

- Employed Searchkick's third party gem to handle flexible search feature
- Paginated results using the Kaminari gem to reduce scrolling
- Utilized Ruby on Rails to create customer and airline employee interfaces with full CRUD actions

WORK EXPERIENCE

Fullstack Software Engineer

Austin, Texas

Freelance

01/2021 - Present

- Designed restful API's and database schema in Ruby on Rails to efficiently handle HTTP requests
- Created front end user interfaces using React to reduce load times
- Enhanced security with Bcrypt to hash passwords and JSON web tokens to authenticate user on each request
- Reduced code base complexity using Redux on the front end and styled projects with Bootstrap and Semantic

Equinor

Austin, Texas

Senior Drilling Engineer / Workover Engineer

07/2014 - 10/2020

- Reduced all SIF/TRIF to zero in a rolling 12 month period and sustained less than 2% well down inventory
- Improved drilling cycle time by up to 48% (\$125 - \$200 million budget)
- Refined field cost estimate vs actual accuracy to less than 3% by developing dashboard in Spotfire with SQL

EDUCATION

Flatiron School

Austin, Texas

Fullstack Software Engineering Immersive Program, Ruby on Rails and React JS

01/2021 - 04/2021

Texas Tech University

Lubbock, Texas

Bachelors of Science in Petroleum Engineering - Cum Laude - 3.52 GPA

05/2014

- Student Government Association
 - Director of Outreach
 - Budget and Finance Committee Chairman

VOLUNTEER

In Plain English

Writer - JavaScript in Plain English

Remote

08/2021 - Present

- Wrote education blog posts focused on JavaScript for an audience of 54,000+ followers

Code the Dream

Mentor & Assignment Reviewer

Remote

07/2021 - Present

- Held one on one mentoring sessions to review course material and answer questions
- Reviewed students assignments and provided constructive criticism on how to improve

Nerd for Tech

Writer - Computer Engineering

Remote

02/2021 - Present

- Wrote educational blog posts on a diverse variety of programming and computer science topics