

# David Polcari

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[Portfolio](#) | [Github](#) | [Medium](#) | [LinkedIn](#)

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## SOFTWARE ENGINEER

Full-Stack Software Engineer with a background in Petroleum Engineering. Passionate about continuously improving tools to solve real peoples, real world problems. Bring a global perspective thanks to military family, studying abroad and international travels. Self-driven, entrepreneur, who enjoys being challenged, mountain biking and growing ridiculously hot peppers.

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## TECHNICAL SKILLS

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

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## 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

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## WORK EXPERIENCE

### Fullstack Software Engineer

Freelance

Austin, Texas

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

Drilling Engineer / Workover Engineer

Austin, Texas

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

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## EDUCATION

### Flatiron School

Full Stack Software Engineering Immersive Program, Ruby on Rails and React JS

Austin, Texas

01/2021 - 04/2021

### Texas Tech University

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

Lubbock, Texas

05/2014

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