David Polcari

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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

Code the Dream   Remote
Assignment Reviewer - Intro to Programming Course   07/2021 - Present
- Reviewed students assignments and provided constructive criticism on how to improve

Nerd for Tech   Remote
Writer - Computer Engineering   02/2021 - Present
- Wrote educational blog posts on a diverse variety of programming and computer science topics