BROOKS POLTL

SOFTWARE ENGINEER

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Skills

LANGUAGES
TypeScript
JavaScript
Elixir
Python
GraphQL
SQL

FRONTEND TECHNOLOGIES
React
React Native
Redux
Vue
Vuetify
Tailwind
Electron
Apollo Client

BACKEND
Node
Express
Knex
Django
Pheonix

DATABASES
Postgres
MongoDB
MSSQL

TESTING
Jest
Supertest
Mocha
Cypress
Postman
Chai

TOOLS
Azure
VS Code
Git
Github
Yarn
LaunchDarkly

Employment

Eastman Chemical Company
Saint Louis, Missouri (Remote)
Software Engineer II - Core Pattern Management Team
Aug. 2020 to Current
Product
- Manage Eastman internal applications for developing and maintaining new and legacy vehicle patterns
- Built and maintained a VBA macro that decreased time spent naming SVG elements by 80%-98% depending on the file
- Write SQL queries to fix data as well as facilitate business needs
- Write validation and parsing algorithms to test pattern quality
- Train new developers to better understand our system and practices
- Write unit and Postman integration test to ensure quality software
- Implement Azure API Management to provide flexibility to our cloud infrastructure
- Manage release pipelines using Azure DevOps

Eastman Chemical Company
Saint Louis, Missouri (Remote)
Software Engineer I - Core Desktop and Mobile Team
Nov. 2019 to Aug. 2020
Product
- Work with UI/UX designers to build pixel perfect user interfaces
- Decrease load times on mobile using React Native
- Utilize Electron to build a Vue desktop application
- Implement pagination resulting in up to a 95% decrease in load times
- Use PaperJS to build pattern editing capabilities using HTML Canvas
- Present knowledge shares on functional programming, Azure, and system design
- Write LaunchDarkly feature flags for easy releases
- Write Cypress end-to-end test to ensure quality

Projects

Poker App (WIP)
Apr. 2021 to Current
Github Repos: frontend   backend

Poker app built with the Phoenix framework for Elixir and React with Typescript and Tailwind.

- Utilize event-driven architecture for real-time communication using WebSockets
- Write functional code in Elixir
- Setup integration test with a real Postgres test database
- Deployed an Elixir project using CI/CD

compound-interest-calc
June 2019 to June 2019
Github
NPM package that allows you to input initial value, amount, years, interest rate, and period to calculate compound interest. The algorithm returns the result and data you can use to graph the total future value versus the principal per year.

- Developed an algorithm to calculate compound interest
- Wrote test to make sure the algorithm responds with intended results
- Published the algorithm to the NPM package registry for other programmeurs to use in their projects

CAPM Calculator
May 2019 to May 2019
Github
Calculates the expected return on equity of S&P 500 companies using a linear regression going back a specified amount of months.

- Utilized the AlphaVantage and Quandl API to get historical market and stock data
- Ran a linear regression using Python to find the correlation between a specific stock and the market
- Used Django to create an endpoint to get the data
- Deployed Django app to Heroku

Education

Lambda School
Oct. 2018 to June 2019
Web Development & Computer Science 2019
Lambda School is a 30 week Computer Science & Software Engineering Academy that provides an immersive hands-on curriculum with a focus on computer science, software engineering, and web development.

Texas Tech University
Aug. 2014 to May 2018
BBA Finance 2018