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Bryan Manuele

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Technologies and Expertise

Front-end: JS, React, GraphQL, Redux, Vue, D3, Jest/Enzyme, SSR, Webpack, Sass, Wasm, Webgl, babel
Back-end: Node.js/Express, Rails, GraphQL, Rust, SQL, DocumentDB, MongoDB, AWS, Docker, Serverless

Experience

Canvas App - Founding Engineer (Rust, Webgl, Wasm, React, GraphQL, PSQL, Snowflake) 2021-Present
BI-Tool with an Excel like frontend for data warehouses

- Built a charting library based in Webgl that powers charts across the app
- Built out the cell formatting system for the Excel-like frontend
- Developed a two-way compiler that translates Excel-like spreadsheet operations into Snowflake compatible SQL queries with support for complex operations such as pivoting data

Flexport - Catalog Team Fullstack Engineer (React, GraphQL, Ruby, PSQL) 2020-2021

- Worked on launching the Pricing Request service, which ingests all non-bid pricing requests at Flexport
- Set up and built out the frontend for the Charge Management product, which handles the pricing of charges on all ocean shipments at Flexport

Flexport - Frontend Infrastructure Engineer (React, GraphQL, OSS, Webpack) 2018-2020

- Created, worked on, and open sourced Flexport's design system, Latitude -- a component library used across all Flexport product areas. (see https://www.github.com/flexport/latitude)
- Built out a library of AST utils to facilitate making cross-cutting changes across the frontend codebase
- Simplified and improved developer experience by creating a suite of webpack scripts and workflows
- Played a role in developing Formula-One, the open source React Forms library used by Flexport

Aerendir - Machine Learning Embedded Systems Intern (C, Python, Matlab) 2017-2018

- Developed a C implementation of Support Vector Machines Classifier for embedded systems
- Developed and documented proprietary Digital Signal Processing (DSP) algorithms

Berkeley E3S Labs - Nanophysics Research Intern (C, Python, Matlab) Internship - summer of 2016

- Developed a dry transfer process for transferring 9A Graphene nanoribbons onto any substrate
- Characterized the semi-conducting properties of atomically smooth Graphene Nanoribbons

Notable Projects

Medium Blog *Publisher on HackerNoon and NoteWorthy*

- Published technical articles on Web Engineering topics ranging from 'Best practices for building React apps' to 'Implementing JWT Authentication' to 'The Tradeoffs to using Serverless Backends'
- 10+ technical blog posts published to medium having received 250k+ total reads

Symbolic-Calculus *An open-source npm package for symbolic calculus* (Node, Mocha, Chai, NPM)

- Implemented a math expression engine with symbolic differentiation / integration capabilities
- Open sourced this library to NPM with near 100% test coverage using Mocha and Chai

Achievements / Honorable Mention Projects:

Reactathon 2020 speaker: *Quantifying the Health of your React Codebase*
formulate *A React library for managing form state using state machines* (React)
Foodsie.io *A web app where users share location based food selfies at their favorite food spots* (React, Node)
CoinPredict *A Python GDAX scraper that uses tensorflow to predict trends in Ethereum prices* (PyTorch)

Education

Hack Reactor *San Francisco, CA* Advanced Software Engineering Immersive Program 2018
Foothill College *Los Altos, CA* AA in Mathematics | AA in Physics 2017