

PARKER BOLICK

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[PORTFOLIO](#)

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SKILLS React, Redux, Node.JS, Flask, Express, PostgreSQL, SQLAlchemy, Javascript, HTML, CSS, SQL

PROJECTS

OpenBoard (ReactJS, Redux, Flask, PostgreSQL, SQLAlchemy)

[live](#) | [github](#)

OpenBoard is a task management application oriented towards bug tracking for software engineering projects.

- Developed an intuitive drag and drop functionality by utilizing React Beautiful DnD on the frontend and a mutable array column in the database to allow users to reorganize tasks into different sections on their project board.
- Integrated a responsive task auto-save by updating the front end state immediately with React's useState hook then dispatching new data to the server in order to persist task content changes.
- Reduced backend API fetch calls to update user state by leveraging the PostgreSQL database one to many relationships and eager loading allowing for a quick navigation experience for the user when updating project tasks and board configurations.

QuickJot (ReactJS, Redux, Express, Node.js, PostgreSQL, Sequelize)

[live](#) | [github](#)

QuickJot is a note-taking application that allows notes and notebooks to be created, organized, and searched for.

- Implemented a quick search feature by creating a slice of state in Redux that utilizes already fetched user data to allow users to search against their note and notebook titles.
- Created a modal based form environment by using React context and click event listeners to allow for a seamless user experience when displaying and submitting forms across various React components.

ToTheMoon (ReactJS, Redux, Flask, PostgreSQL, SQLAlchemy, IEX Cloud API)

[live](#) | [github](#)

To the Moon is a stock trading website created to emulate trading securities and investing for beginners.

- Collaborated with three other engineers during a week-long sprint utilizing user stories and daily standups to delegate tasks for efficient application completion.
- Built a stock graph using Plotly.js by leveraging the onMouseHover prop to extract graph data values and update the parent component's price state to create a functionally dynamic stock price display.

EXPERIENCE

Resident Engineer

Baltimore, MD

Stellantis (formerly Fiat-Chrysler Automobiles)

Feb 2020 - Jun 2021

- Maintained vehicle build quality in line with corporate metrics for the RAM ProMaster City
 - Utilized problem analysis tools to determine root cause of quality issues such as PDCA, 4M1D analysis, fishbone diagrams, Pareto charts, Kepner-Tregoe analysis and FMEA.
 - Achieved 35 conditions per 1000 vehicles for the 2020 fiscal year, below the target of 50 C/1000
- Provided technical direction for corrective actions towards issues with supplier parts and assembly processes
- Developed control plans for new component implementation, created and updated standard operating procedures to eliminate opportunities for man or method related issues

Product Design Engineer Intern

Elizabethtown, NC

Specialty Product Technologies

Jan 2017 - May 2017

- Developed internal ABS components of a prototype hubodometer designed to operate at interstate speeds, built a tester to analyze performance and refine associated components
 - Improved product cell fixtures on factory floor to lower Takt time by 20%
- Addressed manufacturing change requests by improving outdated part drawings by creating CAD models to make digital drawings and updating internal databases accordingly.

EDUCATION

Full Stack Software Engineering - App Academy | Jun 2021 - Dec 2021

BS Mechanical Engineering - University of Georgia | Aug 2015 - Dec 2019