Ryan Dalton

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SKILLS: React, Redux, JavaScript, Python, Flask, SQLAlchemy, Sequelize, Postgres, SQL, HTML, CSS, Heroku, Git, Test-Driven Development, Object-Oriented Programming, AJAX, Express.js, REST API, Node.js

PROJECTS:

Financial Friendship   JavaScript, Python, *Flask, SQLAlchemy, ReactJS, CSS3, WebPack, PostgreSQL*   live | github
Single-page application designed around the idea of helping the user be more in tune with the state of their finances.
- Created dynamic data visualization charts using react-chartjs-2 library to give users a real-time snapshot of their finances, culminatory in a strong UI / UX
- Harnessed the unidirectional state management of Redux to simplify React components and directly manage data for application to have scalability
- Designed React slices-of-state to create minimalistic modals for forms, this design feature ensures multiple child components are not opened simultaneously
- Managed create/review/update/delete functionality across multiple pages using RESTful API principles to establish maintainable codebase

spaceXchange   JavaScript, Python, *Flask, SQLAlchemy, ReactJS, WebPack*   live | github
Robinhood inspired stock-trading application with an intergalactic niche using Recharts for creative data visualization.
- Utilized a RaspberryPi to create a separate Express server acting as dynamic APIs for application data, allowing us to increase performance by handing off part of the workload
- Implemented Python package called BeautifulSoup to web scrape news/market data related and appropriate content to enhance user experience
- Leveraged a custom search bar utilizing objects stored in React/Redux state, then filtering based upon user input in order to reduce unnecessary database queries

Navigamer   JavasScript, *Express, Sequelize, Pug*   live | github
Web application built around the idea of collection shelves for video game enthusiasts with the ability to interact with other users' about their experiences with any game.
- Built using AJAX to asynchronously process data requests to reduce page refreshes, making for a more dynamic user experience
- Generated DOM manipulation through the use of custom event-listeners based upon user input to make application more responsive

EXPERIENCE:

Software Engineer Assistant
App Academy   Sept 2021 - Present
- Administering mock technical interviews (including systems design, DS&A, and technical trivia)
- Providing debugging and technical support on web applications for pool of 250+ engineers

Lead Winch Truck Operator
TP Services   June 2017 - Apr 2020
- Directed a group of 2 drivers and 4 laborers that would assist in logistical construction site preparations
- Trained novice drivers in safe winch and tanker operations, incident reporting, working as a team, and material handling according to company SOP
- Analyzed and restructured scheduling to create a win-win opportunity between management/employees, to create a system in which personnel had time off more often but could follow DOT laws and work more if desired

Bridge Crewmember (12C)
U.S. Army Reserve   Dec 2009 - Dec 2017
- Specialized in engineering/construction of bridge types to ensure military mobility across any gap, land or water.
- Operated light and heavy duty vehicles during combat-simulated missions
- Trained in land navigation, teamwork, combatives, firearms, and military operations in urban terrain

EDUCATION:

AppAcademy - Web development, software engineering best practices and computer science fundamentals | 2021
Fairmont State University - Music Education / Civil Engineering | 2010 - 2011