Biet Van Nguyen

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SKILLS

Skilled: JavaScript ES6+, React (Router, Hooks), Redux, Python, Docker, REST API, Jest, Enzyme, Git, Webpack, Postman, OAuth, Express, Node.js, Django, PostgreSQL, MongoDB, Agile Development
Experienced: C, TravisCI, Websockets.io, BCrypt, Electron

RELEVANT EXPERIENCE

Dockure | *Simplifying the containerization process* | *Dockure.com* **New York, NY**
Full Stack Engineer/ Scrum Master *2021-Present*

- Designed routes using Express and Docker REST API to render container information, as well as to allow developers to perform complex Docker orchestration actions (create, build, pull, etc) in an accessible user interface
- Configured bidirectional SOCAT access to docker API in daemon by exposing unix socket over TCP port in order to directly retrieve information about docker containers and command them
- Designed decoupled React components so developers can efficiently debug and/or modify when adding new features
- Deployed a Jest/Enzyme unit-testing suite to conduct TDD, allowing peer developers to better evaluate back-end/front-end compatibility and quickly merge new features into the Github repository
- Constructed modular charts and graphs using reCharts to display docker metrics retrieved from port listeners in cAdvisor to empower users to make informed decisions about their containers
- Product developed under tech accelerator OS Labs | opensourcelabs.io

New York City Department of Education | *http://intro2018cs50nestm.net/* **New York, NY**
Computer Science Teacher *2016-2021*

- Designed project-based curriculum based on Harvard's CS50 in C and Javascript and core Computer Science practices
- Taught approximately 80 students to develop technical understanding of C and Javascript and core Computer Science practices such as data types, structures, algorithms, and functional programming

OPEN SOURCE PROJECTS

Job tracking and analysis tool

- Implemented Google OAuth to create unique users and modularize dashboards based on their job lists and preferences
- Leveraged OAuth to create a relational database with PostgreSQL between the users and their stored configurations
- Incorporated Redux hooks to send status changes of job cards components directly to data components to update real-time data graphics and to persist user configurations across multiple containers and components
- Utilized Recharts to better organize data and dynamically design graphs based on joblist data from Redux and database

WobbleChat | *Anonymous chat rooms and message boards*

- Integrated WebSocket protocol to establish a persistent connection between users and the server to allow real-time data transfer enabling the application to display the latest information sent from the server to all connected clients
- Utilized SQL database to leverage relational data between unique users and message boards within separate schemas
- Constructed interactive message boards that allowed users to anonymously post questions and discussions using React to dynamically create components and render messages based on fetch requests sent to the database

Visualizer for sorting and navigating algorithms in real-time

- Dynamically rendered algorithmic sorting processes in React components using setTimeouts and asynchronous queues so users can better visualize algorithms and their differences, and develop an intuitive understanding of their time complexities
- Created feature that updates sorting processes in real-time by using Redux to capture sorting speed and cluster size parameters set by the user

EDUCATION

Brooklyn College | *Masters of Education* *2016-2019*
Wheaton College | *BA, Philosophy* | Honors: *Posse Foundation Full-Tuition Leadership Scholarship* *2012- 2016*

INTERESTS

Volunteer: *Chinese Consolidated Benevolent Association* | Organized events consisting of approximately 100 volleyball teams
Hobbies: Playing sports (volleyball and basketball), coaching volleyball, teaching, playing music (guitar, piano vocals)
Language Skills: Fluent in Vietnamese