# Bo Peng NYU Computer Science | software engineer

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### Technical Skills

Strong: Node, Express, Javascript ES6+, React/Hooks, React Router, Webpack, Bcrypt, JWT, MongoDB, RESTful API, GraphQL, Authentication, Git Version Control, Vim IDE, VSCode, CLI, Bootstrap, Redux/Saga, HTML5/CSS3 Experienced: TDD, Jest, Enzyme, Supertest, Postgres, Websockets, Apollo, OAuth, Docker, AWS, Travis CI, Java, Python

# **Experience**

ManageGo 2019

- → Implemented new website designs in React for software applications, improving user experiences for thousands
- → Created new custom React hooks using React history module to manipulate query strings when handling API calls and state management with Redux and Redux Saga for the utmost dynamic front-end performance
- → Designed and finalized an API schema on a new commercial application feature/software for concierge users
- → Utilized styled-components to design multiple React components to ensure optimization, stability, and consistent universal styling throughout the entire application structure and user interface
- → Wrote polished tests on redux actions, reducers, and sagas to ensure proper functionality in application state

  Nova

  2019
- → Combined React's dynamic rendering and D3 to generate a continuously animated interactive data-driven SVG representation of GraphQL schemas that are capable of persisting throughout the application life cycle
- → Maintained aspect ratio of SVG schema nodes represented as a directed graph using an algorithm that branches the nodes outward along specific X coordinates on the canvas by using force to control the motion
- → Architected custom React Hooks to eliminate the need for lifecycle methods and shifting the Class paradigm into a more organized functional architecture by isolating functionality into multiple reusable methods
- → Implemented Redis cache to handle high volumes of incoming GraphQL endpoint fetch requests which minimizes the number of asynchronous calls resulting in reduced latency and a streamlined UX
- → Deployed Node.js application as a multi-container docker application, isolating Node.js environment and Redis images, resulting in a modularized and standardized service infrastructure across all platforms
- → Utilized session storage to store user's introspection query to persist sessions within the application view
- → Implemented React Router to enable client-side dynamic routing which reduced server calls and produced seamless view transitions between multiple documentation pages across the application infrastructure
- → Developed a breadth-first search algorithm to produce a specific color pattern based on the schema's correlation with one another to display a clear understanding and overall visual structure of the nodes
- → Enforced unit testing with Jests assertion and mocking library combined with Enzyme across the application infrastructure to ensure maintainability and clean code structure and to reduce production bug density
- → Utilized AWS EC2 and S3 to store the dockerized app in the cloud for reliable elastic web-scaling and security

#### Open Source Projects

Webpack Starter | NPM package CLI tool

2019

- → Harnessed Node and the NPM packaging ecosystem to create an extensible and modular CLI tool to abstract webpack complexities for easy configuration and setup on the user's behalf
- → Leveraged Node Child Processes to execute parallel bash commands inside the shell to develop user-facing API and to write and generate files and folders that are necessary for Webpack within the client's local file system
- → Implemented node environment variables to handle production and development modes inside scripts
- → Assembled React Hot Loader as a webpack plugin to prevent re-rendering of the entire page view, which kept logs intact and maintained application state at runtime resulting in a better, faster development experience
- → Utilized Babel NPM package to transpile ES6 syntax down to readable browser-compatible Javascript code

#### Education

New York University | BA in Computer Science with a minor in Economics and Web Design

2014 - 2018

#### Public Talks

Build With Code NYC | Memory Allocation

2019

# **Interests**

Digital Art | Rock Climbing | Ping Pong | Minimalistic Architecture | Home Decor | Palewave Fashion | Photography Matcha Latte | Hiking | Snowboarding | Driving at Night | Japanese Cuisine | R&B and Ballad Music