Wirapa Boonyasurat

Software Development Engineer

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Technical skills

Languages :	JavaScript, TypeScript, HTML, CSS, Python, SQL-Query language
Frameworks & Libraries :	React.js, Node.js, Express.js, React-router, Material-UI, Styled-Component, SASS, Electron, OAuth
Databases :	MySQL, MSSQL, PostgreSQL, MongoDB
Testing Tools :	Mocha, Jest Testing
Cloud & Version control :	AWS, Docker, Git, Github
Operating Systems :	Window, macOS
Other :	JSON, Troubleshooting, W3C accessibility best practice, UX design principles, ArcGIS, Data cleansing

Experience

SeeQR - 2021 - 2022 | An open sourced database analytic tool to compare the efficiency of different schemas and queries for early-stage database management (maintained by the tech accelerator, OSLabs)

- Improved overall app efficiency by decreasing memory waste and streamlining data querying flow through research and implementation of multiple core features using **React** and **Node** asynchronous file systems.
- Redesigned the front-end navigation system, resulting in improved user-friendliness and accessibility.
- Developed the desktop application using **TypeScript** to benefit from typed schema functionality, which made the application more robust and easier to refactor for further development.
- Optimized the testing process to be easier and faster in runtime by leading a test-driven development process and leveraging **Jest** to test the React components.
- Employed **GIT** as the version control system and implemented unit and functional tests to ensure that all tests passed for every functionality before releasing to environments.

ESRI - 2018 - 2019 | Tested and maintained spatial data

- Conducted data cleansing in spatial database for navigation map using **SQL query** in geo-spatial paradigm to maintain accuracy and reduce outdated and incorrect data, while also providing assistance to the senior QA engineer with onboarding and training the operation team on proper data input and data cleansing procedures.
- Tested and verified navigation maps using spatial geographic information system program (**ArcGIS**) to meet client needs, ensuring that maps were accurate and reliable.
- Collaborated with internal teams, including developers and product managers, to identify system requirements and improve the testing process, resulting in more efficient and effective testing procedures.

Frollic - Web application | Full-stack website for people with accessibility needs to search for places to hangout.

- Received a 93 performance score and 100 accessibility score out of 100 from Lighthouse score, demonstrating a strong understanding of web development best practices.
- Collaborated on multiple projects with a team, creating websites and web applications using **HTML, CSS,** and **JavaScript** to bring provided designs to life.
- Created an inclusive UI for accessibility by utilizing **React** and **React Hooks** to create **semantic HTML** elements that made the tab accessible, using **SCSS** to set the style of the page in an organized and reusable way. Additionally, used a color palette appropriate for people with achromatopsia to ensure accessibility for all users.
- Implemented **Redux** to manage states over the application, including the authentication system of the website, resulting in more predictable and traceable changes to the website.
- Efficiently handled HTTP and **API** requests by implementing **Express.js** to develop the back-end part of the application, demonstrating proficiency in back-end development.

YNAJ - Web application | Full-stack job tracking application where users can search for jobs, save job applications and track the status of each application.

- Reduced load time of the components in the frontend to provide a seamless user experience by utilizing **React Router**, demonstrating proficiency in frontend development.
- Implemented a convenient way for users to login with one account using **LinkedIn OAuth,** enhancing the user experience and demonstrating expertise in authentication.
- Utilized **Express.js** for backend and routers due to its scalability and asynchronous capabilities to handle concurrent requests, demonstrating proficiency in backend development.
- Compiled all the components and assets in the application to render with faster speed using Webpack, improving the overall performance of the application.
- Improved the speed of **API** calls while retaining data accuracy using Indeed **web scraper API**, demonstrating proficiency in API integration.

Education

- Codesmith Software Engineering Immersive Program - Los Angeles
- B.A. in Geography and Geo-informatics - Chulalongkorn University