Nicholaus Marsden

Software Engineer

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Results-driven Software Engineer with 6 years of Agile development experience. Proficient in JavaScript, Typescript, React.js and Node.js. Passionate about optimizing application performance and streamlining processes.

Technical Skills

JavaScript, TypeScript, HTML, CSS, React, Redux, Mobx.js, NGRX, Material UI, NodeJS, Express, Restful API, Swagger, Kafka, Redis, NoSQL, SQL, Jest, Cypress, Docker, Kubernetes, AWS, Azure, Terraform, Slack, Microsoft Team, Jira, Git, GitHub, Bitbucket, Windows, Linux, Visual Studio

Experience:

Universal Orlando Resort   Orlando, Fl

Senior Software Engineer   Aug 2023–present

Universal Orlando Resort is a well-known company that deals with family-friendly activities. They take great pride in the applications they produce to make the process smoother for their guests and give them a better experience. At Universal Orland Studio, I developed features that dealt with guests, tickets, and parties.

- Worked in an Agile environment to develop on Theme Park application for Universal Studio.
- Worked on React componentizing the application into individual pieces and implementing HOC for reusable structure.
- Used React hooks such as useState, useEffect, useCallback, useRedux etc.
- Develop restful API, event processor, functions in a microservice environment using tools like express, Kafka and azure function for transfer of data in a NodeJS environment.
- Applied knowledge of typescript, using properties such as class, decorators, overload functions and generic.
- Worked with NoSQL and SQL database such as CouchDB and MSSQL for storing records.
- Applied test towards code base in a BDD approach with mocha and chai, before updating to the GitLab pipeline.
- Collaborated with the internal team, which consists of architecture, developers, and QA. To provide feedback on system updates, divide the epic from Jira into individual pieces and estimate the complexity of the tickets.

Environment: JavaScript, TypeScript, React, Node.js, Express.js, CouchDB, Mocha, Chai, Rest API, Swagger, Redis, Apache Kafka, Microservices, Kubernetes, Docker, Jira, Git, GitLab, Azure

IBM   Sandy Spring, GA

Software Engineer   Feb 2022 - Aug 2023

During my tenure as a Software Engineer at IBM, I played a key role in developing crucial modules focused on creating and maintaining claims. These modules served as integral components in managing and manipulating data related to incentives within the organization. The primary objectives were to provide efficient ways to validate, calculate, and process various types of incentive for business partners.

- Proficient in building dynamic, interactive web applications using React.
- Applied core concepts such as lifecycle, components, state, and props.
- Utilized carbon components and styled-components library with CSS to create reusable components with JSX.
- Designed and implemented interactions between components and view models using the MVVM architectural approach.
- Leveraged MobX.js to observe and react to state changes in modules for efficient view updates.
- Developed RESTful APIs using expressJS and Implemented scheduling tasks in Node.js with cronJS.
- Developed a Node.js Event Emitter to trigger events to update, create or fetch data in IBM Cloudant.
- Improved test coverage to 90% for modules using Jest framework with unit and integrational testing.
- Collaborated with Business Analysts, Project Owners, Stakeholders, and Developers on Epics and story requirements.

Environment: JavaScript, TypeScript, React.js, Node.js, MobX.js, Inversify.js, Express.js, Jest, Rest API, Redis, Apache Kafka, Cypress, Carbon Design, Microservices, Kubernetes, IBM Cloud, GitHub, Travis, Docker, Jira, Slack, Git

Stanley Black & Decker   Atlanta, GA

Full Stack Developer   Oct 2020 - Feb 2022

An intelligent industrial AI-based collaboration platform that hunts for continuous improvement opportunities and assists in automated orchestration and problem-solving to drive additive enterprise value on an hourly basis.

- Developed and modified single-page applications using React.js and Node.js, optimizing user experience and application performance.
- Implemented WebSockets to enhance real-time notifications and updates, reducing polling and ensuring efficient data transmission.
- Utilized redux.js as a powerful state management library, enabling seamless data handling across components, and leveraged props for effective data communication.
- Documented microservices APIs with swagger documentation, facilitating easy accessibility through Azure API management for stakeholders.
- Implemented Middleware using Joi to enforce role-based access control and validate path variables, query parameters, and request bodies, ensuring data security and application integrity.
- Worked with internationalization (i18n) support in the application, accommodating diverse language variations to reach a global audience.
- Contributed to increase the test coverage of deployment with the Travis CI pipeline.

Environment: JavaScript, TypeScript, React.js, Node.js, Redux.js, Express.js, echart.js, Jest, Rest API, Graphql, Swagger, Redis, Microservices, MSSQL, Microsoft Azure, Bitbucket, Jenkins, Docker, Jira, Slack, Git

Itlize Global LLC   Piscataway, NJ

Full Stack Developer   June 2018 - Oct 2020

A platform for processing and managing data, creating reports, and uploading files. Features include JWT role base validation, notifications, messages, file storage, and chart display.

- Successfully migrated a module from the legacy implementation of Jinja to React.js, improving user experience and streamlining codebase maintenance.
- Leveraged Webpack configuration to optimize the build process of React.js applications, utilizing plugins and loaders for seamless development.
- Collaborated within a dynamic team environment to expand knowledge and proficiency in Angular 6 and Spring Boot, contributing to project success.
- Implemented global state management using the NGRX library, skillfully using actions, reducers, effects, and selectors for efficient data management.
- Utilized Swagger UI as an API documentation tool, providing clear and accessible representations of backend APIs, enhancing team productivity.
- Implemented robust exception handling strategies throughout the module, utilizing Controller Advice to format and return JSON responses, ensuring application stability.
- Effectively used ORM Hibernate to persist Plain Old Java Object (POJO) instances to and from the database, ensuring data integrity and seamless data manipulation.

Environment: JavaScript, TypeScript, React.js, Node.js, Angular, RxJs, NGRX, HTML5, CSS3, Boot Strap 4, Visual Studio Code, Java, Spring Boot, Eclipse, MySQL, Jasmine, Karma, Git, Jira, AWS (S3, Lambda, RDS, EC2), Microservices, Cucumber, Python

Education

University of Arkansas, Fayetteville

B.S Computer Engineer, May 2019