SIMON MIAO

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PROFESSIONAL SUMMARY

- Around 6 years of strong experience in design, development and deployment of web-based client/server business applications using UI authoring and web technologies involving **Angular** version 7+, **JavaScript (ES6)**, **TypeScript**, **HTML5**, **DOM**, **CSS3**, **SASS**, **Bootstrap**, **JSON**, **NgRx**, **Redux** and **Angular Material**.
- Experienced in working with Angular CLI, **modules**, **services**, **templates**, **reactive forms** and **validations**, **authentication**, **directives**, **pipes**, **services**, and **dependency injection** for **SPA** related construction.
- Experienced in developing custom services with **RxJS** by Observable and Subjects.
- Proficient in designing and developing scalable back-end systems using modern technologies such as **Node.js**, **Express**, and **MongoDB**.
- Strong knowledge of **SQL** and **NoSQL** databases and their integration with web applications.
- Familiar with **Axios** for making HTTP requests from the client-side and **Express** that could help build robust server-side applications and APIs in a fast-paced and dynamic environment.
- Experienced in developing Web Services to expose useful functionality to web users through **GraphQL** and **RESTful** API for web service calls and integrating them with front-end frameworks such as Angular and React Native.
- Experienced in all phases of usability testing including user profiles and personals, task analysis, contextual research, test moderation, and reporting using **Karma**, and **Jasmine**.
- Expertise in implementing security measures like **JWT**, to protect APIs from unauthorized access and ensuring data privacy.
- Proficient in cloud infrastructure, used **Docker** and **Kubernetes** to containerize and manage the applications for deployment on **AWS** that ensure consistency across different environments.
- Experienced in developing web and mobile applications using **Angular Ionic** frameworks.
- Knowledgeable in various testing methodologies and frameworks such as **unit testing**, **integration testing**, and **end-to-end testing**, and have incorporated them into **CI/CD** pipelines to ensure code quality and prevent bugs from reaching production.
- Proven track record of optimizing application performance through **code optimization** and caching techniques.
- Experienced with **Jira** for bug tracking and issue tracking and daily stand up to sync up with Team for current sprint status Implementation and Maintenance with extensive experience with **Agile** methodologies.
- Highly motivated team player with strong communication, analytical, documentation, and organizational skills.

Skills

- Coding Languages: JavaScript, TypeScript, Node.js Java, SQL, NoSQL, C++, Python
- Frameworks: Angular, React Native, Express.js, Nest.js
- UI Development: HTML/HTML5, CSS/CSS3, SASS
- Databases: MongoDB, MySQL, Redis
- Web Tech Stack: RxJs, NgRx, JWT, JSON, Protobuf

- Development Methodologies: Agile/Scrum
- Testing & Debugging Tools: Jasmine, Karma
- DevOps: CI/CD pipelines, Jenkins, Docker, Kubernetes
- Version Control & Project Management: Git, Jira

Work History

Full Stack Developer, 08/2022 - Current
NuORDER – Los Angeles, CA
Project: Nuorder Platform
Description:
This is a B2B platform built for both brands and retailers. Suppliers sell online and in-person with digital preview and interactive virtual showrooms; it could help capture orders with 24/7 online ordering, as well as setting user-specific pricing, discounts and product selections for a more personalized buying experience.
Responsibility:

- Created web app design and helped programe website using **Angular 10**, **Angular Material** with **HTML5** and **CSS3**.
- Worked with various features in Angular framework like **data binding**, **routing**, **custom pipes**, **custom directives** to meet various customized requirements. Developed custom pipes to transform backend data to present information and catalogs in an easily customizable and personalized way to show latest collection.
- Developed complex forms using **ReactiveFormsModule** modules, performed form validation using **Validators** of @angular/forms and created customer validator directives for password validation.
- Used Interceptors of **HttpClientModule** along with **UUID** token in **JWT** for authentication and authorization.
- Designed and developed **RESTful API**s using **Node.js** to build high-performance and scalable backend services.
- Utilized database using, extended API for databases, **MongoDB** and **Redis**.
- Developed **RxJS** methods **subject** to broadcast personalized discount information to customers that have subscribed to retailers and brands.
- Built a dashboard for retailers and brands to track sales performance, identify sales trends, and review KPI's through built-in reporting using **Observable**.
- Refactored application into several feature modules and implemented **lazy loading** for a better user experience.

- Worked on **Angular Material** including Datepickers, Sidenavs, and Material Data Table (including sorting, filtering, and live to update).
- Achieved functionalities that use **SMTP(Simple Mail Transfer Protocol)** to send weekly emails to retail customers highlighting best sellers, on-hand inventory and promos.
- Used automated testing tools and frameworks, such as **Jasmine**, **Karma**, and **Postman** for unit testing and integration testing.
- Worked in **Agile-Scrum** development methodology to ensure delivery of high-quality work with monthly iteration, also involved in sprint planning and retrospectives.
- Conducted system deployment and containerization using **Docker** and **Kubernetes** for container orchestration and management.
- Implementing **CI/CD** pipeline using **Jenkins** in multiple environments. Environment: Angular 10, HTML5, CSS3, Bootstrap, Angular Material, Jasmine, Karma, JIRA, Agile

Front End Developer, 08/2021 - 08/2022
Cloudbeds – Los Angeles, CA
Project: Cloudbeds Project Management System
Description:
This platform simplifies the whole reservation management and front office operations with a central reservation calendar. User are able to upgrade guests, see notes, block room availability, and update rates and room inventory across all the distribution channels.
Responsibility:
- Designed and implemented front-end user interfaces using **Angular** version 9 to present real-time data of day's arrivals, departures, and reservations
- Worked on UI design using **Angular Material**, ensuring a smooth and responsive user interface.
- Utilized project with filters using custom **pipes** that could help receive an overview of sales and cancellations of property.
- Implemented authorization and authentication part with **guard** and **JWT** to check bearer token users hold.
- Developed and maintained **RESTful API**s using **Node.js** and **Express.js**, ensuring efficient and reliable communication between front-end and back-end systems.
- Established a connection between back-end APIs and front-end interface using **Subject** from **RxJS**, as well as some **Machine Learning** methods to make a prediction of 14-day outlook on client's revenue and occupancy.
- Extended functionality of back-end by developing custom **RESTful API** endpoints, allowing seamless integration with external systems and services.
- Integrated **MongoDB** as database solution for storing and retrieving data, designing schemas and models to optimize data organization and retrieval performance.
- Implemented automated testing and deployment processes using **Kubernetes** and **Docker** to ensure reliability and scalability of systems
- Adapted web application to mobile platforms using **Angular Ionic** framework, enabling cross-platform

development with a single codebase

- Optimized whole application performance and scalability using **lazy loading**
- Derived optimization and flexibility of software engineering process, got best outcome from **CI/CD** and **Agile** approaches.

Front End Developer, 05/2019 - 08/2021
Gudong – Chengdu. China
Project: Employee Sports Health Management Platform
Description:
It is a platform which helps employees to have better management of their health status, with multiple functionalities, such as daily sports ranking, daily mission program, activities with customized themes. The wise management system could help better organize the team and inspire employees to have better health conditions.
Responsibility:

- Implemented client-side validations and fetched data using **Angular** to communicate with **RESTful** services with **JSON** Data.
- Used Angular to make **HTML** and **CSS** code interact with **TypeScript** functions to add dynamism to web pages at client-side.
- Responsible for checking cross-browser compatibility, Responsive Web Design using **Bootstrap** and hence worked on different browsers like Firefox, Google Chrome, and Internet Explorer.
- Developed mobile applications using Angular **Ionic framework**, enabling **cross-platform development** with a single codebase.
- Collaborated with UI/UX designers and stakeholders to implement visually appealing and user-friendly interfaces using Angular **Ionic components** and styles.
- Utilized Ionic's native performance optimization techniques, such as **lazy loading** of modules and **code splitting**, to ensure fast startup times and smooth performance.
- Constructed effective APIs ports using **NestJs** such as real-time transportation visibility for front-end to connect and gain corresponding data with proper authorization.
- Involved in Containerization and orchestration (**Docker**, **Kubernetes**) of **RESTful** API development.
- Worked with data scientists and analysts to drive improvements using **Agile** method and agile development practice.

Front End Developer, 01/2018 - 05/2019
Xiaoduo – Chengdu, China
Project: Data intelligence project
Description:
Data intelligence project helps empower intelligent decision-making, making business decisions faster and more accurately. This is a one-stop cross-platform multi-store data asset management model that unifies query management of cross-platform multi-store sessions, commodities, orders and other data, and has the basic capabilities of analysis and application.
Responsibility:

- Took responsibilities for developing Angular UI and architecture using **Angular Material**.
- Involved in development of UI using **HTML5**, **CSS3**, **TypeScript**, **Angular 7** and worked on framework to augment browser-based applications with MVVM capability.
- Realized functionality of checking authorized or unauthorized users using **guards** before application
- Worked on Angular 9 to create custom **directives** for information presentation and to display data in company standard format with different ways of measurement using custom **pipe**.
- Implemented **NgRx** in Angular projects to manage application state and enable a reactive and scalable architecture.
- Realized broadcasting subscribed data to all clients end available using **Subject** and **Observable**.
- Used **Git** for version control throughout development process and participated in process using **Agile** method, monthly Sprints, daily **Scrums**.
- Utilized whole structure for data binding of platform using **ngModel directive**.