Ziyuan Dong

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SUMMARY

- Around 7 years of experience in developing Single Page Applications by using TypeScript, React and Angular.
- Deep insight into JavaScript(ES5/ES6/ES7), CSS3, HTML5, DOM, jQuery and AJAX.
- Capable of building responsive and mobile-first pages by use of SCSS, Bootstrap and Material UI.
- Strong ability to build scalable and Restful services based on NodeJS frameworks like Express and NextJS.
- Hands-on experience with Angular directives, asynchronous pipes, services and hierarchical dependency injection.
- Highly skilled at React state management with Redux toolkits, including Redux-Persist and Redux-Saga.
- Advanced knowledge on components such as dynamic component, web component and view encapsulation.
- Good amount of work done on Angular reactive forms, React controlled forms and form validation.
- Proficient with router module, including accessing query parameters/fragments, resolver and route guard.
- Experience in using Angular/React HTTP Modules to consume back-end APIs and handle errors.
- Knowledgeable in implementing authentication and authorization by using JWTs and HTTP interceptors.
- Adept at Angular/React optimization, such as prevent unnecessary re-renders and dynamic importing.
- Able to work with best practices including responsive design, accessibility design and i18n.
- Proven ability in testing and debugging with Jest, Enzyme, Jasmine, Karma, JUnit along with TDD environment.
- Expertise in core Java concepts like OOPs, Collections, Exceptions, I/O, multi-threading and design patterns.
- Worked extensively on RDBMS/NoSQL such as Oracle, MySQL, SQL Server, MongoDB and PostgreSQL.
- Ability to deploy, manage and operate scalable, highly available, and fault tolerant systems on AWS.
- Good command of Git for version control, as well as Jira for project management.
- Profound understanding of Agile methodologies and familiar with Software Development Life Cycle (SDLC).
- Solid troubleshooting skills with an inclination in a challenging environment.
- Dedicated team player that is eager to share new knowledge with peer workers aiming for overall progress.

TECHNICAL SKILLS

Programming Languages:	JavaScript, TypeScript, HTML, CSS, Java, C++, Python, SQL, NoSQL
Web Technologies:	React, Angular, NodeJS, SCSS, Bootstrap, Webpack, Spring Boot
Database:	MySQL, SQL Server, Oracle, MongoDB, PostgreSQL
Testing Tools:	Jasmine, Karma, Jest, Enzyme, JUnit, Cypress, Mocha, Chai
DevOps:	Git, Jira, Jenkins, Kubernetes, Docker, AWS
Methodologies:	Agile, Waterfall, BDD, TDD

EXPERIENCE

Walmart Inc.   Fremont, CA
Senior React Developer   *July 2022 - Current*

Project: Vajra platform for E2E testing within sandbox environment

Description: Vajra is a platform that provides an on-demand sandbox environment, for other Walmart teams to do their functionally end-to-end testing. Staging environment for complex and big systems is often over 70% unhealthy based on weekly reports of item ingestion pipeline. By using Vajra, users could one time onboard the components, design the pipeline and then bring up an Kubernetes-based sandbox environment in a matter of minutes.

Responsibilities:

- Refactored Vajra-UI application, including optimizing project structure, extracting common methods, client side pagenation, and replacing class components with more decoupled functional components.
- Worked on Redux, Axios and Lodash to enhance state management, real-data handling and immutable operations.
- Employed React Router module, including several hooks to accomplish dynamic, seamless and private navigation.

- Implemented responsive, scalable and encapsulated style templates for better user experience.
- Upgraded React from 14 to 17, and fixed peer dependency conflicts and all incompatible issues.
- Worked together with back-end team to create, improve and test RESTful APIs, and manage data using PostgreSQL.
- Conducted unit testing, integration testing and E2E testing with the help of Kubernetes.
- Supported new Vajra users to deploy and test their applications, and fixed any bugs based on their feedback.
- Involved in daily Agile meetings and communicated with the Scrum master to keep track of the project status.

Environment: React, Material-UI, Java Spring Boot, Kubernetes, PostgreSQL, Git, Jira, Walmart Cloud

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Walmart Inc. Fremont, CA
Senior Full Stack Developer *June 2021 - Mar 2022*

Project: Membership Express Application for Sam's Club

Description: Sam's Club is a membership-only retail warehouse clubs owned by Walmart. Membership Express is the web application providing all the services of membership management, such as membership creation, activation, payment, updating profile and purchase history checking. Our team is responsible for migrating the application from browser to Ipad with new UI design and virtual activation feature.

Responsibilities:
- Created mockups with Zeplin to ensure high graphic standards and brand consistency.
- Turned UI/UX design into prototypes by writing reusable Angular components and services.
- Applied Angular best practice such as importing NgRX and upgrading libraries to the latest version.
- Replaced the CSS with SASS to provide more control on responsive design and optimize rendering performance.
- Created the unit testing cases for components, services to keep the code coverage over 80 percent.
- Executed integration testing and E2E testing, and provided handlers for different error scenarios.
- Fixed any bugs after releasing product to maintain operations continuity and productivity.
- Used Express to provide Restful APIs to handle CRUD transactions, JWT management and server-side pagination.
- Wrote technical documentation about the code base setting up, device configuration and framework upgrading.

Environment: Angular, SASS, Jasmine, Karma, Zeplin, Spring Boot, Swagger, MySQL, Git, Jira, Jenkins, AWS

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Alibaba Group Los Angeles, CA
Mid-Level Angular Developer *June 2020 - May 2021*

Project: Ant Design UI component library

Description: Ant Design UI is an enterprise-class Angular component UI library used for building Alibaba's internal web application like HR system and code review system. It provides 60 high-quality components, 4 layout systems and 7 themes. It also has advanced features including schematics, onPush strategy support, bidirectional text, i18n, accessibility design and server-side rendering.

Responsibilities:
- Designed and developed Angular UI components such as Progress Bar, Popover Window and Pagination.
- Provided various themes by defining common/specific theme styles in different files for dynamic switching.
- Created custom directives and predefined style classes with SASS features to support responsive layouts.
- Implemented accessibility design and i18n by using common locales, CDK and pipe.
- Applied Angular best practice to reduce bundle size and prevent unnecessary re-rendering for better performance.
- Executed unit testing and integration testing based on Jasmine and Karma framework.
- Set up CI/CD pipeline by using Jenkins in conjunction with GitLab, Angular, Docker and Alibaba Cloud.
- Participated in building facilities such as schematics, IDE snippets, editable demos and documentation.
- Used Git for version control and Jira for agile development.

Environment: Angular, SASS, Jasmine, Karma, Express, Git, Jira, Jenkins, Docker, Alibaba Cloud

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RPost, Inc. Los Angeles, CA
Junior Full-Stack Developer *May 2019 - May 2020*

Project: The RSign Platform

Description: The RSign Platform provides simple, feature-rich and affordable e-signature services. Users can sign documents on any browser in an intuitive and guided way. RSign includes the most advanced e-sign features with configurable settings, making it seamless to automate workflows, as well as fulfilling identity requirements, satisfying bank-grade security and meeting loan and fin-tech regulations.

Responsibilities:

- Developed the single page application using TypeScript, Angular 7/8 and Bootstrap.
- Created e-signature pad component with features of custom styles and form validation based on HTML5 canvas.
- Enabled authorized and dynamic navigation by using Angular Router, Route Guard and Resolver.
- Worked with RxJS and NgRx to maintain complex states across the whole application.
- Implemented authentication and authorization functionalities with JWT and Angular HttpInterceptor.
- Conducted unit testing with Jasmine and Karma, and supported the QA team in E2E testing with Cypress.
- Built key infrastructure aspects as logging, metrics and failure tolerance by using Express.
- Wrote Unit tests based on test cases generated by Mocha and Chai.
- Used Git as version control tool, and used Jira as project management tool.
- Set up Jenkins CI/CD pipeline integrated with GitLab, Docker and AWS EC2.
- Played a key role in selecting appropriate AWS services based on data, compute and security requirements.
- Engaged in the agile development process by attending sprint planning meetings and daily stand-up meetings.

Environment: Angular, Bootstrap, Jasmine, Karma, Cypress, Express, Mocha, Chai, Git, Jira, Jenkins, Docker, AWS

Bank of Tianjin   Tianjin, China

Junior Full-Stack Developer   *Aug 2016 - July 2018*

Project: Online Banking System

Description: Bank of Tianjin is a commercial bank head-quartered in Tianjin, China. Its online banking system enables customers to manage their accounts over the Internet. Functions it provided include billing and invoicing, cash management, tax management, payroll, spend management, revenue recognition and currency exchange.

Responsibilities:

- Developed the single page application with TypeScript, Angular 5 and Angular Material.
- Used SASS to manage breakpoints and execute media queries for mobile-first and responsive design.
- Enhanced XSS protection by sanitizing values with DomSanitizer and using AOT template compiler.
- Imported polyfills such as Web Animations and classList to fix cross-browser issues.
- Performed Angular unit testing based on Jasmine and Karma framework to enhance the code quality.
- Participated in building SOAP web services based on Spring Boot and conducted unit testing with JUnit.
- Implemented storage logic based on Spring Data to interact with Oracle database.
- Implemented server-side authentication and authorization based on Spring Security.
- Worked with Git to control version, and performed CI/CD process with Jenkins.
- Utilized Agile methodologies to manage the full software development life cycle of the project.

Environment: Angular, Angular Material, Jasmine, Karma, Spring Boot, JUnit, Oracle, Git, Jenkins, Linux

EDUCATION

University of Southern California   Los Angeles, CA

M.S. in Computer Science   *Jan 2019 - May 2020*

Nankai University   Tianjin, China

B.S. in Computer Science   *Aug 2014 - June 2018*