Chao Wan

Full Stack Developer

SUMMARY:

- 3+ years Full-Stack Developer in IT, E-Commerce and Fintech Industry
- 3+ years in web development using HTML, CSS, JavaScript and TypeScript
- 3+ years in Java with Spring boot and C# with .NET
- 3+ years **Python** Full-Stack Development with Libraries and Frameworks
- 2+ years Relational Database and NoSQL Database such as Oracle, MySQL and MongoDB
- 2+ years in MEAN stack technologies: MongoDB / Express.js / Angular.js / Angular 2 & 4 / Node.js
- Exceptional expertise in Front-End libraries and frameworks such as Angular 2/4/5,
 React.JS, Bootstrap, PrimeNG, KendoUI, Flutter, PWA and WebGL
- Solid understanding of Object-Oriented Design Patterns.
- Expert on using Maven, Hibernate and Java Spring MVC to manage Java Projects
- Worked in **Agile/Scrum/SPRINT** development Methodologies
- Experience with **DevOps** tools for Production Control
- Well trained in R and MATLAB for Data Science
- Side Projects with Progressive Web App and React.js

Education:

DePauw University: Bachelor of Science – Computer Science 2013-2017

TECHNICAL SKILLS:

JavaScript: ES 6, TypeScript, Functional Programming Java: Java 1.5-1.8, OOP, Java Collections Framework Java EE: JSP, Servlet, Hibernate, JDBC, Spring boot.

C#: Entity Framework, .NET, ASP.NET

Python: Python 2/3, Pygame

Web Technologies: HTML/HTML5, CSS/CSS3, Bootstrap, Angular 2/4/5, React.js, JSON,

XML, JavaScript, TypeScript

Back-End Frameworks: Node.js, .NET, Springboot

Other Languages: SQL, C#, Scala, C

Database: SQL, Oracle SQL, MySQL, MS SQL, PostgreSQL, MongoDB **Data Science**: Python, numpy, R, MATLAB, Apache Spark, Scala

Version Control: SVN, Git

Testing Unit: Jasmine, Mocha, JUnit, Karma

Dependency Management: Maven, Gulp, NPM, Webpack

PROFESSIONAL EXPERIENCE:

Duke Energy Corporation

Charlotte, NC Jan 2019 – Present

Full Stack Developer II / UI Lead / UI Architect

I was hired as a Full Stack Developer and the Key Role of Front-end for the project. As the one fully in charge of the Front End in the team, my responsibilities are not only writing clean and functional code but also deciding the technology stack and framework, as well as creating front-end architecture for the project.

Responsibilities:

- Created the Architecture for the Front-end
- Built up infrastructure with Microsoft Azure, APIGEE and Swagger
- Wrote shared utilities, components, services and key modules for the Front-end Part
- Displayed complex data models including Tree, Grid, Table and made them Editable
- Used **ES6**, **Functional Programming** and **Typescript** features if possible
- Chose **UIKit** and **Kendo UI** for UX libraries
- Designed all the pages with CSS class in this application to make them all responsive
- Used C# and .NET core technology as Back-end service
- Created Restful API with .NET Link to communicate with SQL Database
- Used Jira for source control
- Agile work environment

Environment:

HTML/HTML5, CSS/CSS3, Bootstrap, JavaScript, TypeScript, Angular5, .NET core, Oracle 11g, Jira, AJAX, JSON, C#, Jasmine, Karma, Ulkit, Kendo Ul

BMO Harris Bank Dec 2017 – Jan 2019

Livonia, MI

Full Stack Angular Developer

I was hired as a Full Stack Developer in Transportation Finance team. The whole web-application was originally built with JavaScript and Google Web Toolkit. My job is to rebuild the web-application with **Angular5** in TypeScript and help architect the whole framework so that it could be scalable.

Responsibilities:

- Redesigned the UX with PrimeNG and Bootstrap. Created Responsive Web Design using Bootstrap Grid System and PrimeNG, implemented Navigation bar, Togglable tabs, Dropdown menu, Image Carousel, Scrollspy, Button, Modal, Form, Table, Pagination, etc.
- Designed and Built the web application view with HTML5 and CSS3
- Used **TypeScript** instead of JavaScript to handle logic, manage code and let code be more extensible and portable.

- Fully applied Angular 5 functionalities: Two-Way data binding, Event Tracking, Reactive Form Builder, Routing Control, Dependency Injection, Components Based and Directive Driven
- Developed Back-End Service Call functions to handle Restful HTTP requests and responses, creating Middleware between different data sources and streaming data
- Created several **Customized Directives** in **Angular 5**, making reusable components that fulfilled all detailed requests
- Created restful service backend based on Spring Boot and implement the back-end business logic with Java 8
- Designed the project based on **Java Spring** and connected to **Oracle** database with **Hibernate** framework in developing environment
- Mapping data-structure for both back-end and front-end to the database using JDBC and Hibernate
- Followed Agile to commute and make sure everything is under control, strictly with daily scrum, three-week sprint and PI planning
- Used **Jasmine** test framework to unit test the Angular TypeScript code and Unit tested the Java code with **JUnit** test framework.
- Participated in the implementation of standalone Micro Front-End, Portal-Micro-UI interaction, UI communication based on Angular 5 and kept the feature of Single-Page Application
- Used **SVN** for version control and **Jenkins** to automate the build and deploy process
- Analyzed data calculation results report by comparing retrieved data from orders' information and users' trending

Environment:

HTML/HTML5, CSS/CSS3, Bootstrap, JavaScript, TypeScript, Angular5, Spring-boot, Oracle 11g, SVN, Jira, JUnit 4, AJAX, JSON, Java 1.8, Jasmine, Karma

UNDCRWN Jan 2017 – Dec 2017

New York City

Full Stack Java/Angular Developer

UNDRCRWN is a company that creates & sells smart design inspired by sports culture. The whole web-application was originally built with JavaScript and jQuery library. Our software department's job is to rebuild the web-site with **MEAN stack** technologies which provide a better performance and a more coding-friendly development environment.

Responsibilities:

- Participated in every phase of Software Development Life Cycle: Requirement Analysis,
 Design, Implementation, Testing and Maintenance with Agile
- Built Web Pages with HTML/HTML5, CSS/CSS3, Bootstrap, AJAX
- Worked closely with **UI** design team
- Implemented Front-End with Angular.js to apply reactive functions such as Form Building, Form Validating, Filter, Data-Binding, Custom Directives, Routing
- Implemented well-structed components with **AngularJS** modules, such as **Controllers**, **Services**, **Filters** and **Directives**

- Implemented restful WebServices by Node.js
- Created a NoSQL database to store users' information and products' introduction, with MongoDB and Mongoose Framework, visualized by Robot 3T
- Used Express as back-end framework, controlling the Back-End elegantly with Middleware Interface, Session Management and Static File Serving
- Used GIT to do version and source control

Environment:

HTML/HTML5, CSS/CSS3, Bootstrap, JavaScript, Java 1.6, AngularJS, jQuery, Express, Jira, Git, JSON, Node.js, Mongoose, MongoDB

NextCapital May 2016 – Dec 2016

Chicago

Part-time Software Developer/ UI Designer

NextCapital is a digital advice platform providing financial advice to investor at an affordable price. I did a semester internship in this company and then continued as a part-time developer.

Roles and Responsibilities:

- Optimized algorithms of several data science models
- Utilized **Linear Regression**, **Regression Tree**, **Fit Ensemble** in **R** language to optimized existing algorithms

Environment:

R, JavaScript, HTML, CSS, jQuery, MATLAB