Jiajin Zheng

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Jacky (Jiajin) Zheng

Profile

- A Front-end developer with one year hands-on experience with multiple projects.
- Strong understanding in **React, Javascript, Sass, CSS** and **HTML** for web application development. Hold strong passion about following the SOLID design principles in writing better quality codes.
- Experience in creating **REST** web service using **Java** and **Spring Boot** Framework. Understand of the server site architecture and design pattern.
- Over 3 years of experience in tutoring and 1 year of experience in a start-up project within a cross-disciplinary setting.
- A fast learner with determination and inquisitive mindset.
- An effective team player with excellent oral and written communication skills.

Education

2018 — 2019 **The University of Melbourne**
Master of Engineering (Biomedical)
Academic Achievement: Second Class Honour A

2015 — 2017 **The University of Melbourne**
Bachelor of Biomedicine
Academic Achievement: Second Class Honour A
Recipient of 2016 Melbourne Global Scholars Award

Technical skills

- **UI Technologies & Programming languages:** HTML5, CSS3, Sass, JavaScript, Java, Python, C
- **Libraries & Frameworks:** React, React-Redux, React-Router, Bootstrap, Material-UI, JQuery, Spring Boot
- **Web Services Technologies:** Axios, REST, JSON
- **Unit Testing Tools:** Jest, Junit, MockMvc, Mockito
- **Module Bundler:** Webpack
- **Database:** MySQL, MongoDB Atlas, H2 In-memory database
- **Messaging Brokers:** RabbitMQ
- **Version Control & Development Tools:** Agile, Scrum, TDD, BDD, git, Github flow
- **Cloud services:** AWS S3

Relevance Experience

May, 2020 — Present
School Management System

- Designed and built **UI** & **React component** from scratch for the front-end of the application. Code was later refactored using **React-Redux** for more stable state management. Included the **responsive** feature.
- Consumed **REST API** for **CRUD** operation with **JSON** data transferring. APIs were called using **Axios**. Reusable codes were centrally managed.
- Wrote unit tests with **Jest** for ensuring productivity and providing documentation for co-workers.
- Experienced in **Agile** development using **Scrum** and **TDD. Github flow** was used as the development workflow.
- Involved in designing **MySQL** database and building **REST API** with **Spring Boot** framework.
- Experienced in writing unit tests with **Junit, MockMvc & Mockito** and using **H2** In-memory database.
- Worked with **MapStruct** and **Lombok** to improve efficiency. Documented and tested API endpoint with **Swagger**
- implemented message queue using **RabbitMQ** for sending user registration information to the user email.
- Used **JWT** token to prevent unauthenticated and an unauthorised user from accessing restricted routes.
- Refactored code for the compliance of code standard using **static code analysis** tool and better performance.
- Experience in containerising the project with **Docker.**

Apr, 2020 — May, 2020
Weather Web Application Project

- Designed and built a **UI/UX** driven single page weather app with **React, Styled-Component** and **Sass module**.
- Implemented modern interactive functionalities including searching weather for different locations, bookmarking favourite location and viewing historic weather information using customised **React component**.
- Implemented responsive with **Media query**.
- Used state management tool **React-Redux** to manage and display weather information across multiple components.
- Sass modules were configured using **Webpack** as module bundler.
- Fetched data as **JSON** via third party **REST API** and experienced in handling **Promise.**

📅 Dec, 2019 — Mar, 2020

Personal Website Project

- Created a responsive single page personal website using **HTML/Sass/Javascript**. Carry out **BEM** convention.
- Added an interactive background using **Particles.js** and implemented smooth navigation using **Swiper.js**.
- Included Google Maps Embed API, Google Analytic and reCAPTCHA API for website authenticity.
- Deployed website onto **AWS S3** for static hosting and use **AWS Route 53** DNS services for my custom domain.

📅 Nov, 2019 — Dec, 2019

Single Page Retro Games & CSS Animation

- Created retro games such as Snake, Tetris and 2048 that can be run directly on browsers using Vanilla Javascript. Better mobile compatibility and performance were considered.
- Created highly reusable modern eye catching CSS effects such as carousel, parallax and 3D card flipping animation using pure HTML and CSS.

Responsive and Accessible Web Pages

- Created responsive web celebrity tribute page. Used semantic HTML tags to emphasise accessibility.
- Created demo product landing page using **Bootstrap**. Implemented Google analytics service for website traffic tracking.

Other Experience

📅 2017 — Present   📍 *Dockland, Melbourne*

Senior VCE Tutor

- Currently providing physics and math tutorial sessions for senior high school students as a part-time commitment. Involving in tailoring study plans for over 10 students individually on weakly basic as well as mentoring and advising students for any academic or course planning related concerns.
- Mentored over 50 students for the last 3 years of tutoring, majority of students commenced study in elite universities such as the University of Melbourne and Monash.
- Produced more than 100 content videos that were accessible online for students national-wide.

📅 Feb, 2019 — Dec, 2019   📍 *University of Melbourne*

BioDesign Innovative Start-up Project

- Involved in Identifying unmet needs in the biomedical field, evaluating the feasibility with business aspects.
- Endeavoured in launching a customer value-driven innovative biomedical device as a start-up with decent consideration in the product life cycle, business model and regulation.
- Constructed an MVP for demonstration and result in being one of the finalists for MedTech Got Talent 2019.

Internship

📅 Dec, 2018 — Feb, 2019   📍 *University of Melbourne*

Lab Assistance, CAREN Lab

- Assisted operation on the delicate CAREN system and managed subject's safety under a professional experimental protocol.

Volunteer Experience

📅 Mar, 2019 — May, 2019   📍 *Phillip Island*

Volunteer at Free 3D Printed Hand Workshop

- Helped designing an Arduino electronic prosthetic hand at a minimal cost and offer them for free.

Extracurricular Activities

📅 Aug, 2018   📍 *Melbourne University*

Guest Speaker

- Invited to present about "Healthcare graduate pathway" to the bachelor of Biomedicine cohort in the University of Melbourne..

Team Leader for Industrial Case Competition

- Recruited a cross disciplinary team for an industrial case competition that held in the University of Melbourne.
- Proposed a solution for repurposing a retired ExxonMobil off-shore oil rig platforms. Ceased in the semi-final round.

Languages

Language	
English	
Mandarin Chinese	
Cantonese	
Japanese	

References Available Upon Request