

# James Zhao

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Portfolio: <https://jameszhao.dev>

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## PERSONAL SUMMARY

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A passionate full-stack developer proficient in multiple programming languages and techniques. Engaged with various industry-based projects and proactively explored front-end and back-end development. Keen on web design, software development, and responsive design and committed to continuously learning cutting-edge techniques to address complex challenges and enhance my professional expertise

## TECHNICAL SKILLS

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- **Front End:** React, JavaScript, NodeJS, Express, JQuery, AJAX, HTML, CSS, Bootstrap
- **Back End:** Python, Django, PostgreSQL, MongoDB, MERN Stack, RESTful API
- **Others:** AWS, Git version control, responsive design, user experience improvement, app optimisation

## PROJECTS

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### Travel WikkiMedia MERN Stack Development

Mar 2024 - Apr 2024

Live: <https://travel-wikkimedia-e201bd728fb6.herokuapp.com/>

GitHub: <https://github.com/jameszhao1021/travel-blog>

- Led a team of four members to complete a well-designed MERN stack project; fulfilled a series of features, including blog creating, picture sharing, commenting, and profile editing
- Independently completed crud features that enabled users to view, create, delete, and edit blogs and profiles; assisted teammates in fulfilling crud operations for comment and gallery
- Consumed Rest Countries and Mapbox APIs that provided users with up-to-date geographical information and exceptional user experiences
- Organised brainstorming meetings, collected innovative ideas, and assigned various tasks to team members based on group objectives and individual skills
- Worked collaboratively with teammates, regularly integrating the latest progress on GitHub, gaining valuable experience in teamwork and further developing communication skills

### Plant Diary App

Mar 2024 - Mar 2024

Live: <https://plant-diary-520d76e24169.herokuapp.com/>

GitHub: <https://github.com/jameszhao1021/Plant-Diary>

- Independently utilised Express and JQuery to develop a plant diary app featured by AJAX-based crud operations; allowed users to add, delete and edit a bunch of information, including recently bought plants, plant details and diaries
- Self-learned AJAX and designed inline editing functionality for each part of the app, which enabled users to edit the content based on previous content without redirecting to a new page
- Applied MongoDB to store data; used appropriate routes, controllers and models to communicate client side and the server; fulfilled Google and Facebook authentications for logging in to the app
- Designed background changing features to allow users to customise their pages; leveraged Bootstrap to conduct responsive design and user interface optimisation

### Roulette Game Development

Feb 2024 - Mar 2024

Live: <https://jameszhao1021.github.io/Roulette-Game/>

GitHub: <https://github.com/jameszhao1021/Roulette-Game>

- Independently created a roulette with React; leveraged virtual DOM manipulation to fulfil multiple world-world-based features, including placing chips, calculating gains and losses and rotating wheel

- Designed the betting area and roulette wheel according to American-style roulette game; set odds correspondingly and allowed users to place chips on multiple positions
- Provided users with immediate and accurate data feedback including balance, current bet, gain and lose; designed bankrupt features and betting limits
- Gained a deep understanding of the application of various hooks and virtual DOM manipulations; enhanced debugging and problem-solving skills

### Portfolio Design

Feb 2024 - Mar 2024

Live: <https://jameszhao-68ed1d469201.herokuapp.com/>

GitHub: <https://github.com/jameszhao1021/Portfolio>

- Designed and created an original portfolio based on React from the sketch; demonstrated multiple information, including personal background, skills, projects and contact
- Leveraged the Framer-motion library to design various animations and Bootstrap and CSS to complete responsive designs; applied Email JS to fulfil the email sending feature
- Acquired a thorough familiarity with front-end development and modular programming; empowered my active engagement with web design

## EDUCATION

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### Software Engineering Immersive

Jan 2024 - Apr 2024

General Assembly

Perth, Australia

- Core Modules: Front End Development, Full Stack Development, Python and Django, React

### Master of Professional Engineering (Civil Engineering)

Jul 2016 - Jul 2018

The University of Western Australia

Perth, Australia

- Core Modules: Numerical Methods and Modelling, Finite Element Methods, Hydrolics

### Bachelor of Science

Jul 2013 - Jun 2016

The University of Western Australia

Perth, Australia

- Core Modules: Computer Analysis & Visualisation, Structural Analysis, Accounting

## PROFESSIONAL EXPERIENCES

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### Overseas Education Consultant

Aug 2021 - Oct 2023

Shinyway Education

Beijing, China

- Met with clients to understand their educational and career goals; formulated application plans based on the academic background, interests, and preferences of clients
- Provided clients with up-to-date information about international universities, courses, admission requirements, and application procedures and explained visa processes
- Reviewed and edited application materials, including resumes, personal statements, recommendation letters and related certificates; assisted clients in submitting applications to universities and guided clients through the visa application process, ensuring compliance with immigration regulations

### Structural Engineer

Sept 2018 - Jun 2019

Beijing Master Structural Design Corporation

Beijing, China

- Orchestrated and reviewed floor plans and conducted structural plan drawing; designed steel structures and tested structural serviceability in Wanda water park projects
- Reinforced concrete structures, including foundation, beam and slab to reach safety requirements; examined the stability of structures, including flues and bridges by adding loads on existing models
- Participated in the test of new software and provided technical support to senior engineers in data collecting and evaluating; generated reports before construction and technical weekly meetings