

WONG ZHENG QUAN, ZQ

Software Engineer, Full Stack Web Developer

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Software engineer exploring different technologies. Although more proficient with full-stack web development and the JavaScript ecosystem, I am constantly looking to polish as well as expand my current skillset.

TECHNOLOGY

- ReactJS
- NextJS
- Redux
- NodeJS
- ExpressJS
- Docker
- MySQL
- MongoDB
- Firebase
- Flutter
- Git

LANGUAGE

- TypeScript
- JavaScript
- HTML
- CSS
- SCSS
- Python
- Dart
- SQL

EXPERIENCE

Full Stack Web Developer, Lock&Stock	Oct 2020 ~ Current
SecureMyScholarship Website – <i>NextJS, Algolia</i>	<i>securemyscholarship.com</i>
Developed the entire website for the company's scholarships platform.	
<ul style="list-style-type: none">• Built a fully responsive website using NextJS with optimized page caching.• Integrated the website with Algolia Search to optimize search response time.• Implemented a customizable form builder to generate dynamic application forms.	
Lock&Stock App Backend – <i>ExpressJS, MySQL, AWS</i>	<i>lockandstock.app</i>
Involved in building backend microservices for the mobile app's 2022 revamp.	
<ul style="list-style-type: none">• Implemented multiple backend APIs for the mobile app.• Worked with AWS services such as EC2, S3, Lambdas and SES Email Templates.	
Internal Database Portal – <i>ReactJS, ExpressJS</i>	
Developed a web portal to manage all data for the SecureMyScholarship website.	
<ul style="list-style-type: none">• Built the UI alongside a complex state management strategy to handle advanced queries, filtering and sorting as well as CSV data validation.• Implemented the backend to handle basic CRUD operations, as well as more complex features including batch edits and CSV uploads.	
Database REST API – <i>ExpressJS, MySQL, MongoDB, Redis</i>	
Developed a REST API that serves data from the database.	
<ul style="list-style-type: none">• Designed endpoints with a highly customizable request body, that constructs dynamic SQL queries to return specific data from the database.• Implemented a local Redis cache with cache-stampede mitigation to improve response time.	
Other responsibilities – <i>Python, Docker, Nginx, AWS, Hubspot, Google Sheets</i>	
<ul style="list-style-type: none">• Wrote several python scripts to run automated tasks related to MySQL, Algolia, AWS EC2 Deployment, AWS S3, AWS SES and SMTP.• Involved in basic deployment using Docker, Nginx and AWS services.• Developed custom tools to integrate with 3rd party APIs such as Hubspot and Google Sheets.	

PROJECTS

Skeduler, Timetable Mobile App – <i>Flutter, Firebase</i>	<i>skeduler.wongzq.com</i>
Developed a timetable-scheduling mobile app prototype, that cross-checks availability of part-time employees. Focused on UI using Flutter, state management using Provider, CRUD and Cloud functions using Firebase.	

EDUCATION

Bachelor of Computer Science (2020)
Major in Software Engineering & Multimedia and Game Development
INTI International College Subang, Malaysia (IICS)
in collaboration with University of Wollongong, Australia (UOW)
<ul style="list-style-type: none">• UOW Dean's Merit Award 2017, INTI Academic Award 2017, 2018, 2019• Weighted Average Mark of 82.88