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

Internal Web Portal – *ReactJS, ExpressJS*
Developed a new internal data management platform, which also acts as a web portal for the company's admissions counsellors.
- 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.
- Improved efficiency of the admissions team's workflow from using Google Sheets.

Database REST API – *ExpressJS, MySQL, MongoDB, Redis*
Developed a REST API that serves data from the database.
- Designed a framework for 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 times by 10~20 times.

Scholarships Website – *NextJS, Algolia*   *securemyscholarship.com*
Developed the entire website for the company's scholarships platform.
- 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 – *ExpressJS, MySQL, AWS*   *lockandstock.app*
Involved in building a brand new backend microservice for the mobile app's revamp.
- Worked with AWS services such as EC2, S3, Lambdas and SES Email Templates.
- Implemented endpoints for CRUD operations.

Prep Website – *NextJS*   *prepnow.app*
Developed a business website for the Prep mobile app.

Other responsibilities – *Python, Docker, Nginx, AWS*
- 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.

PROJECTS

Skeduler, Timetable Mobile App – *Flutter, Firebase*   *skeduler.wongzq.com*
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)
- UOW Dean's Merit Award 2017, INTI Academic Award 2017, 2018, 2019
- Weighted Average Mark of 82.88