

Bryan Ze Yan Liow

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Profile: Software Engineer with over 2 years of full-stack development experience, skilled in adapting to evolving technology trends and keen on advancing my career in a dynamic environment.

Key Skills

• Programming Languages

PHP, JavaScript, TypeScript, HTML, CSS, Java, C++, Python, Kotlin and R.

• Frameworks & Libraries:

React.js, React Native, Next.js, Redux.js, Node.js (Express.js), jQuery, Yii, Laravel, Bootstrap and Tailwind CSS.

• Cloud Computing

AWS Certified Cloud Practitioner (CLF-C02)

• Database Management

Knowledgeable in both SQL and NoSQL database design and management.

• Development Tools & Software

Utilising suite of development tools including Git, Figma, XAMPP, Postman and other software for various stages of software development.

• Agile Development

Adept in Scrum-based agile methodologies, ensuring quick adaptation and iterative progress in project management.

Education History

2017 – 2021

2:1 BSc (Hons) in Computing in Software Development

Dundalk Institute of Technology, Dundalk, Ireland

2011 – 2016

Pay Fong High School, Melaka, Malaysia

Employment History

10 / 2021 – 10 / 2023

Climote LTD

Software Engineer

- Developed remote heating control applications to optimise functionality with Yii and Laravel.
- Closely collaborated with R&D team on projects to enrich data visualisation and customer analytics.
- Contributed to API JSON structure, UI design in Figma, and app documentation.
- Improved software with targeted debugging, updates, and API hardware integration.
- Utilised AWS for scalable and robust cloud solutions deployment.
- Participated in enhancing a jQuery SPA, focusing on feature updates and bug resolution.

03 / 2020 – 05 / 2020

Flogas Ireland LTD

Software Engineer Intern

- Created a mobile app prototype with Power Apps to track gas product and tank levels.
- Aided in digital transformation by updating system images for process efficiency.
- Set up VPNs for employee remote access during COVID-19, ensuring operational continuity.
- Provided IT support, resolving technical issues and assisting via the IT help desk.

Projects

Triptalk

Personal Project

Full-stack

- Developed a responsive front-end using Next.js and Tailwind CSS for a seamless user interface.
- Engineered a Laravel back-end to serve RESTful APIs for efficient front-to-back communication.
- Implemented MySQL for robust data management and query optimisation on the back-end.
- Deployed Laravel to AWS EC2 using Elastic Beanstalk for streamlined cloud service orchestration.
- Configured RDS for database services within Elastic Beanstalk for enhanced data integrity.
- Utilised AWS S3 for scalable image and file storage solutions.
- Integrated user authentication with Laravel Passport to bolster security measures.

AQUALITY 2.0

DkIT Final Year Project

Front-end + Hardware

- Worked alongside environmental scientists to define data requirements and analysis metrics.
- Engineered an IoT system with microcontrollers, GPS, GPRS, and environmental sensors.
- Built a cross-platform mobile application with React Native for monitoring control.
- Integrated AI-driven analytics capabilities via RESTful APIs for comprehensive data insights.
- Maintained project flow remotely using Scrum and digital tools during the Covid-19 pandemic.

Doctor Book

DkIT Third Year Project

Full-stack

- Developed an online platform for easy GP appointment scheduling.
- Enabled patients to access their appointment details, medications, and symptoms history.
- Created distinct login portals for doctors, admins, and patients with tailored functionalities.
- Prioritised secure handling of sensitive medical and personal information.

Co-curricular activities

- Boosted the Archery Club's online engagement as Webmaster.
- Participated in Computing Machinery Association for tech talks and networking.
- Represented as an International Student Ambassador at DkIT to nurture diversity.
- Showcased teamwork in university badminton and archery teams.

Other Skills

- **Communication:** Ability to converse fluently in English, Mandarin, Malay, and Cantonese.
- **Learning ability:** Quickly absorb new information and skills, and successfully self-study various programming languages and technologies.
- **Problem-Solving:** Ability to troubleshoot issues, think critically, and come up with effective solutions to complex problems.
- **Organisation:** Skilled at coordinating multiple concurrent projects, prioritising and completing tasks on time without compromising quality.

References

References available upon request