

# Bryan Ze Yan Liow

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## Profile

I am a software engineer with two years of professional experience, holding a Bachelor of Science (Honours) in Computing in Software Development from Dundalk Institute of Technology. My professional journey includes diverse projects in full-stack development, coupled with a deep interest in IoT (Internet of Things) and the emerging Web3 sector. I have a track record of developing software solutions that are both user-centric and practical. Eager to learn and apply new technologies, I excel in team environments and possess strong communication skills, seeking opportunities to join a dynamic team where I can further enhance my skills and contribute to innovative and impactful projects.

## Education

**BSc (Hons) in Computing in Software Development**

September 2017 – June 2021

Dundalk Institute of Technology | Dundalk, Co. Louth, Ireland

Second Class Honours Grade 1

**Programming Languages and Technologies:** JavaScript, HTML, CSS, React.js, Redux.js, Bootstrap, Node.js, SQL databases, NoSQL databases, Java, C++, Python, Kotlin, R, Bash.

### Final Year Project:

In collaboration with DkIT's Centre for Freshwater and Environmental Studies, we advanced Aquality1.0 to Aquality2.0 for enhanced river water quality monitoring. As a front-end and hardware engineer, I designed an IoT monitoring system using ESP32 microcontrollers and environmental sensors. Additionally, I developed a cross-platform mobile app with React Native, integrating seamless data synchronisation and AI-powered analysis through RESTful APIs.

## Relevant Experience

**Graduate Software Engineer**

October 2021 - October 2023

Climote LTD | Dundalk, Co. Louth, Ireland

- Developed websites and applications for internal and external users, focusing on remote heating control systems.
- Collaborated with the R&D team in a project focused on data visualization for internal analysis, utilising advanced analytics to study customer behaviour. This collaboration contributed to the development of algorithms that enhanced energy-saving solutions.
- Utilised Git for version control and Bash for scripting in project development.
- Adopted Scrum in a hybrid working environment for agile project management.
- Contributed to software development through bug fixing, feature enhancements, and API integration for Climote hardware products.
- Gained expertise in SQL, HTML, CSS, JavaScript, jQuery, and PHP, using Laravel, Yii2, and Bootstrap.

- Developed a mobile app prototype using Microsoft Power Apps, enhancing employee access to data on gas product types and tank statuses.
- Actively contributed to the company's digital transformation, updating system images for improved business process efficiency.
- Configured VPNs for secure employee remote access during the COVID-19 lockdown, supporting business continuity.
- Delivered IT support, troubleshooting and resolving issues, and aiding employees through the Flogas IT help desk.

## Skills Set

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- **Programming Languages:** Proficient with SQL, JavaScript, and Bash scripting.
- **Web Development:** Strong skills in HTML, CSS, and EJS for creating dynamic web interfaces.
- **Frameworks & Libraries:** Well-versed in React.js, Node.js, Redux.js, Express.js, and Bootstrap for full-stack development.
- **Decentralised Applications (DApps):** Familiar with the concepts of developing DApps and the basics of Web3 technologies.
- **API Integration:** Experienced in developing and integrating RESTful APIs.
- **Version Control:** Competent with Git for version control and team collaboration.
- **Full-Stack Development:** Solid understanding of full-stack development processes and methodologies.
- **Agile Methodology:** Practiced in Scrum methodology, adapting to hybrid work environments for agile project management.
- **Office Tools:** Efficient in using the Microsoft Office suite for documentation and presentation purposes.

## Extracurricular and Professional Development

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- **Club Leadership:** Served as the Archery Club's Webmaster, improving online interaction and information sharing.
- **Professional Engagement:** Participated actively in the Association for Computing Machinery, joining educational talks, and connecting with industry peers.
- **Cultural Contribution:** Acted as an International Student Ambassador at DkIT, helping to welcome students from various backgrounds.
- **Sporting Endeavours:** Competed in university badminton and archery teams, showcasing dedication and team spirit.
- **Professional Development:** Completed a Web Development Bootcamp via Udemy, where I honed my skills in full-stack development and Web3, solidifying my foundational knowledge in these areas.
- **Skill Development:** Quickly grasped new concepts, tackled complex issues effectively, and consistently delivered on time under pressure.

## References

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Leon Smyth, Senior Analyst at Climote

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