Bryan Ze Yan Liow

Software Engineer

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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, and I am particularly interested in the innovative realms of IoT (Internet of Things) and the emerging Web3 sector. Additionally, I maintain a keen enthusiasm for exploring various new technological advancements, demonstrating a versatile and adaptive approach in my field. Known for creating user-friendly software solutions and a willingness to embrace new technologies, I excel in team environments and possess strong communication skills. I am looking for a chance to be part of an active team to improve my skills and work on new and exciting 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

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.

Software Engineer Intern   March 2020 - May 2020
Flogas Ireland LTD | Drogheda, Co. Louth, Ireland

- 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

Programming Languages: PHP, JavaScript, HTML, CSS, Java, C++, Python, Kotlin, R

Frameworks/Libraries: React.js, Redux.js, Bootstrap, EJS, Express.js

Databases: SQL, NoSQL

Tools: Git, Figma, XAMPP, Postman

API Integration: Proficient in developing and integrating RESTful APIs.

Agile Methodology: Experienced with Scrum and adaptable to hybrid agile work environments for project management.

Extracurricular and Professional Development

Club and Professional Activities:
- Enhanced the Archery Club's online presence as Webmaster, improving interaction and information sharing.
- Engaged in the Association for Computing Machinery, attending educational talks and networking with industry peers.
- Served as an International Student Ambassador at DkIT, fostering a welcoming environment for diverse student groups.

Sports and Leadership:
- Competed in university badminton and archery teams, exemplifying team spirit and dedication.
- Completed a Web Development Bootcamp on Udemy, focusing on full-stack development and Web3, strengthening my technical skills.

Skill Highlights:
- Adapt at quickly mastering new concepts, resolving complex challenges, and delivering results under tight deadlines.

References

Leon Smyth, Senior Analyst at Climote
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