

BRYAN NG JING HONG

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EDUCATION

Universiti Tunku Abdul Rahman

Oct 2022 - Present

Bachelor of Computer Science (Honours)

- **CGPA: 3.72/4.0**

- Achieved Dean's and President's List Awards every semester from Oct 2022 to June 2024
- Relevant Coursework: Data Science, Deep Learning for Data Science, Distributed Computer Systems, Data Structure, OOP, Server-Side Web Applications Development, Object-Oriented System Analysis and Design, Database Technology

PROFESSIONAL EXPERIENCE

8Creation Pte. Ltd. – Software Developer Intern

Oct 2024 – Jan 2025

- Built interactive UI components using React Native and TypeScript.
- Worked multiple responsive web projects, optimizing for performance.
- Revamped enterprise websites using WordPress.
- Documented system features and conducted testing for mobile applications.

Flash Express – Product System Intern

Dec 2021 – July 2022

- Coordinated with different departments within/different countries for system improvement.
- Analyzed user behavior and proposed system enhancements by preparing use cases.
- Prepared test cases and conducted system testing on updated system before deployment.
- Maintained user manuals and prepared training materials.
- Provided training on pre-released updated system to front-line users.

COURSEWORK/ PROJECTS

Smart Food Waste Management System

March 2025 – May 2025

- Integrated cloud and IoT technologies to automate real-time food recognition, inventory updates, and user notifications using AWS Cloud.
- Designed a smart system to reduce household food waste through real-time food tracking, expiry alerts, and consumption analytics.
- Enhanced sustainability by eliminating manual tracking and enabling data-driven food management decisions.

CookVerse Web Application

Feb 2025 – May 2025

- Developed a full-stack PHP web application using MySQL and XAMPP to manage recipes, meal planning, cooking competitions, and user engagement (discussion) in a social cooking platform.
- Designed normalized database schemas to support complex relationships among recipes, meal plans, user interactions, and competition data.
- Engineered dynamic, AJAX-driven interfaces for seamless data retrieval, filtering, and real-time updates.
- Implemented secure user authentication and role-based access control.

Cardiovascular Risk Prediction Using Machine Learning

June 2024 – Sept 2024

- Built a predictive model to classify cardiovascular risk levels using health, demographic, and lifestyle data from 2,100 samples.

- Conducted extensive data preprocessing including feature scaling, outlier handling, log transformation, and encoding.
- Evaluated and fine-tuned multiple ML models (SVM, Logistic Regression, Random Forest), achieving up to 94% test accuracy.
- Applied cross-validation and performance analysis (ROC, PR curves, confusion matrix) to ensure robustness and generalization.

SKILLS AND INTERESTS

- Technical Skills: Python, C++, HTML, CSS, JavaScript, JAVA, SQL, PHP, MySQL, WordPress
- Language: English, Mandarin, Malay, Hokkien
- Soft Skills: Problem-Solving, Multitasking, Time Management, Teamwork, Ability to Work Under Pressure

Achievements

- President List / Dean List Awards on every semester from Oct 2022 to June 2024
- AWS Academy Graduate – AWS Academy Cloud Foundations (Issued by AWS)
- Advanced Java Certification (Issued by Itronix Solutions)