

Chia Ei Ji (Lawrence)

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PROFESSIONAL SUMMARY

Detail-oriented Software Engineer with hands-on experience in designing, developing, and maintaining full-stack applications using React.js, Next.js, Node.js, Express.js, and PostgreSQL. Skilled in solving complex production issues, optimizing system performance, and managing cloud deployments on AWS, Alibaba Cloud, and Railway. Strong collaborator with experience mentoring juniors and integrating third-party services across enterprise systems.

TECHNICAL SKILLS

Programming Languages : JavaScript | TypeScript | HTML & CSS | SQL | Python | XML
Frameworks & Libraries : React.js | Next.js | Node.js | Express.js | Sequelize (ORM) | jQuery | ColdFusion
Databases : PostgreSQL | Oracle SQL | Firebird
Cloud & DevOps : Alibaba Cloud | Railway | Git | TortoiseSVN | WinSCP
Tools & Platforms : BIRT by Eclipse (Business Intelligence & Reporting Tools) | Anaconda
Techniques : AJAX | RESTful API | MVC Architecture

PROFESSIONAL EXPERIENCE

Redsquare Technologies Sdn. Bhd.

Bukit Jalil, Kuala Lumpur.

Software Engineer

Feb. 2025 – Present

Tools Used: React.js | Next.js | Express.js | Node.js | PostgreSQL | Sequelize (ORM) | Alibaba Cloud | Railway

Project: JobMacha, ServiceMacha (China Press)

- Maintained and enhanced web applications on a daily basis, including managing critical legacy issues such as **DDoS** protection, **CORS** failures, and payment sequence inconsistencies.
- Designed, developed, and optimized both functional and non-functional components based on business and technical requirements.
- Guided, mentored, and monitored junior developers and interns to ensure quality delivery and adherence to best practices.
- Integrated third-party systems and services, including LHDN middleware, ensuring secure and reliable data exchange.
- Managed cloud deployments, CI/CD pipelines, and server environments on **Alibaba Cloud** and **Railway** to ensure high availability and performance.

Inter-Enterprise Solutions Sdn. Bhd.

Petaling Jaya, Selangor.

Senior Software Developer

Apr. 2024 – Jan. 2025

Tool used: JavaScript | ColdFusion | TortoiseSVN | WinSCP | Firebird

Project: Mitsubishi Motor Malaysia Automotive Retail Management System (ARMS)

- Collaborated with the consulting team to gather requirements, design, implement, test, deliver projects, and provide support to clients.
- Guided, monitored, and trained junior/intern team members.
- Deployed and monitored support tasks and enhancements to live applications.

Software Developer

Jan. 2022 – Mar. 2024

Tool used: React | Node.js | JavaScript | ColdFusion | Git | TortoiseSVN | PostgreSQL | Firebird | Oracle SQL

Project: E-Leave Portal

- Led the development of e-leave portal with **ReactJS** to streamline employee leave records, applications tracking and processing.
- Integrated backend services with **Node.js** and **Express** and utilized **PostgreSQL** for database management.
- Designed and implemented data table's structure and process flow of leave applications & approvals.

Project: Honda Malaysia Dealer Management System | Perodua Service System

- Provided ongoing support and post-live development using tools such as **JavaScript**, **ColdFusion**, **BIRT**, **Firebird**, and **Oracle SQL** for client change requests, enhancements, and new module implementations.
- Consistently met project deadlines and provided post-development to ensure client satisfaction.
- Conducted code reviews and provided mentorship to junior developers.

Software Developer, Intern

Oct. 2021 – Dec. 2021

Project: Perodua Service System

- Performed programming using **JavaScript**, **ColdFusion**, **BIRT**, and **Oracle SQL** to reach functional & non-functional requirements.
- Performed system troubleshooting and rectifying programming bugs.
- Wrote a system document to describe existing system.

EDUCATION

University Tunku Abdul Rahman

Bachelor of Science (Honours) Software Engineering

Kajang, Selangor.
Oct. 2019 – May. 2022

- Major(s) in Web Application Development, IOS Application Development, and Data Mining.
- Studied Language: HTML & CSS, JavaScript, Java, PHP, MySQL, Python, Objective-C & Swift
- Studied Framework: React, Laravel, SwiftUI
- Awards: **Silver Award** in Track 5: Internet Engineering and Computer Science, Final Year Project Poster Competition 2021.
Access Link: <https://news.utar.edu.my/awards/2021/Sep/30/04/04.html>

Tunku Abdul Rahman University of Management and Technology

Diploma in Science Computer Science and Computer Mathematics, with *Merit*

Setapak, Kuala Lumpur.
May. 2017 – Oct. 2019

- Major(s) in Web Application Programming, Object Oriented Programming (OOP), and Computer Mathematics.
- Studied Courses: Calculus, Statistics, Discrete Mathematics.
- Studied Language: C++, HTML & CSS, Java, SQL

PUBLICATIONS

E. J. Chia, and M. K. Najafabadi, "Solving cold start problem for recommendation system using content-based filtering" 2022 *International Conference on Computer Technologies (ICCTech)*: Feb 2022, pp. 38-42, doi: 10.1109/ICCTech55650.2022.00015

RESEARCH EXPERIENCE

Solving Cold Start Problem for Recommendation System Using Content-Based Filtering

Jan. 2021 – Feb. 2022

Advisors: **Dr. Maryam Khanian Najafabadi** (Department of Internet Engineering and Computer Science, University Tunku Abdul Rahman, Selangor, Malaysia)

Responsibilities:

- Conducted data cleaning and filtering using **Anaconda**, **Kaggle**, and **Python** with libraries **Pandas**, **NumPy** to prepare the dataset for analysis.
- Analyzed various algorithms to address the cold-start problem in recommendation system.
- Proposed various content-based filtering models and visualized recommendation results using **Matplotlib** and **Seaborn** to observe recommendation accuracy for new users.
- Presented findings and methodologies at the 2022 International Conference on Computer Technologies (ICCTech) to the academic discussion on recommendation system.

Skills Developed:

- Proficient in data analysis, algorithm evaluation, and model development.
- Enhanced abilities in scientific writing, presentation, and research methodology.

SKILLS AND AFFILIATIONS

Languages : English (fluent) | Mandarin (native) | Malay (basic)

Memberships : Graduate Technologist, Malaysia Board of Technologist (MBOT)

May. 2023 - Present