

# Wynn Teo Hui Ling

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Experienced full-stack developer with strong expertise in serverless architecture, API integration, and modern web technologies including AngularJS, React, and Vue.js. Proficient in backend development using Node.js, Java Spring Boot, PHP Laravel, and Python Django. Able to work independently with minimal supervision while also thriving in collaborative team environments to successfully deliver high-impact projects. Known for being a detail-oriented developer with a passion for continuous learning, growth, and delivering quality solutions that meet business goals.

**Key skills** RESTful API Development, Serverless Architecture, Fullstack Development (Java, Spring Boot, Python Django/Flask, Node.js, PHP Laravel), Frontend Development (Vue.js, ReactJS, AngularJS), AWS Cloud, Bitbucket, GitHub, NoSQL database, Container deployment Docker, CI/CD, Test-Driven Development, Agile Methodology, Keycloak SSO, Serverless architecture, Team collaboration, Fast learner.

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## Career history

### Fullstack Developer

NTUC LearningHub, Aug 2023 – Present

- Designed and developed a **serverless SMS batch job** using **AWS Lambda** and **SNS** to send campaign notifications to ~30k users, **promoting course registration**. This results in a **significant increase in the course registration rate**.
- Deployed and configured a **Keycloak Single Sign-On (SSO)** server using **Docker**, **Amazon ECR**, and **ECS**. Developed and customised **authentication flow plugins** to meet unique business authentication requirements.
- Built a digital portal using **Vue.js**, **Amazon S3**, **API Gateway**, **Lambda**, and **RDS (serverless)** to manage training materials. This solution **saved the company up to \$500,000** in printing and distribution costs and **received positive feedback** from business stakeholders.
- Integrated **SAP SuccessFactors APIs** into the internal portal to **automate** employee onboarding, offboarding, and training data updates using the **MuleSoft API platform**.
- **Improved API performance** and reduced latency by **decoupling business logic** through **AWS SQS**, offloading time-consuming tasks and enhancing responsiveness.
- Implemented a **centralised payment service** using **Spring Boot** and **Thymeleaf**, hosted on **AWS Fargate**, to handle transactions across multiple portals. Integrated with **DBS PayNow** and **2C2P**, this resolves production misalignments and **reduces existing payment gateway costs**. The design supports future **scalability** without requiring changes to client systems.
- Designed and developed a **secure biometric login** middleware using **WebAuthn** and **Java Spring Boot**, following the **OIDC standard** and enabling **passwordless authentication**. This in-house

solution **saved the company from high vendor fees** and improved the overall login user experience.

- **Customised Keycloak** to support **SSO integration** with **LinkedIn, AWS, and Udemy**, enabling **delegated authentication** based on business needs..

### **Assistant Principal Engineer**

Geo-Insights | ST Engineering, Nov 2018 – Jul 2023

- Designed and developed a comprehensive **satellite imagery and analytics platform**, leveraging **AngularJS, Node.js, Flask, MongoDB, PostgreSQL, Google Maps, Mapbox**, and hosted on **AWS Elastic Beanstalk**.
- Built a sales and marketing **statistical dashboard** using **Google Analytics** data to track platform usage and identify potential customers.
- Developed rapid prototype platform and **Restful APIs** using **ReactJS, NodeJS, Django** to demonstrate the capabilities to resolve the client needs in different industries (eg, Environmental, Agriculture, Maritime and so on).
- Utilised **Docker** and **Nginx** to deploy the frontend and backend applications, ensuring seamless integration.
- Proficient in AWS cloud technologies, including **EC2, SQS, AWS Code pipeline, Lambda**, and **S3**, and experienced in using software tools such as **JIRA, Bitbucket**, and **GitHub**.
- Developed **Maritime Insights** and **Carbon Prospecting platforms** that were successfully showcased in various events, including **Webinar, GSTC, World Economic Forum 2022, Straits Times**, and **Zao Bao**.
- Maintained outstanding performance and consistently **received positive feedback** from business stakeholders.

### **Business System Analyst**

NCS, Apr 2015 – Sep 2018

- Maintained and supported the School of Health Screening system built with **Java EJB** and **ECQ** SOP Process on **WebLogic**.
- Reviewed and **optimised SQL queries** and **enhanced batch job logic**, significantly **improving performance** and **reducing Crystal Report generation time**.
- Resolved critical security vulnerabilities (SSTI, CSRF, concurrent sessions) identified during penetration testing.
- Handled production support, ensuring timely resolution of user-reported issues within SLA. Conducted **SIT/UAT testing**, deployed fixes, and updated functional specifications, including use cases and sequence diagrams.
- Provided **technical design solutions**, performed **code reviews**, and supported interface requirements gathering.
- Designed and implemented batch job templates using **Spring Boot, Spring Batch, Hibernate, IBM MQ**, and **Filenet**, enabling over 10 real-time and batch integrations (via **MQ, SFTP**, SOA Web Services).

- Scheduled and monitored **80+ batch jobs** across 4 servers using **Control-M** and **Windows Scheduler**, **optimising SQL** and server loads to improve performance.
- Participated in the system rollout and maintenance phase, ensuring smooth operations and timely resolution of issues.
- Proactively identified and resolved issues reported by users, leveraging strong problem-solving skills and technical expertise.

### **Software Engineer**

ST Electronics (LSG), Mar 2014 – Mar 2015

- Designed and developed a **Train Asset Management system** using **Java J2EE Spring framework**, **Hibernate**, **Ajax**, **JQuery**, **DWR**, and **DB2** database, resulting in a scalable and reliable system for asset management.
- Integrated and customised **IBM Maximo Business Solutions v7.5** into the Train Asset Management system. Developed scripts and designed reports using the Actuate BIRT report.
- Assisted the team in implementing a solution to overcome the URL redirect loophole when accessing the Maximo Report module from external applications.
- Played a key role as a core developer in the team, successfully handling the development of over 10 Maximo modules, including Job Plan, Preventive Maintenance, Service Request, Labour, Route, and Document Management, among others.
- Developed a data loader to assist the team in speeding up the data migration process, resulting in a more efficient and streamlined workflow.

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## **Education**

### **SPECIALIST IN BIG DATA MANAGEMENT SYSTEM**

TEMASEK POLYTECHNIC, May 2017

### **BACHELOR OF ENGINEERING IN COMPUTER SCIENCE HONS**

NANYANG TECHNOLOGICAL UNIVERSITY, Dec 2013, ASEAN SCHOLARSHIP

### **DIPLOMA IN INFORMATION TECHNOLOGY MERIT**

NANYANG POLYTECHNIC, May 2010

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## **Certifications**

AWS Certified DevOps Engineer 2023

AWS Certified Developer Associate 2020