

# DARREN WAH

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## EDUCATION

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### National University of Singapore

Aug 2021 - Dec 2024

Bachelor of Computing in Computer Science (CAP 4.46/5.00)

- Certificate of Distinction in Database Systems Focus Area
- Teaching Assistant for CS2040 Data Structures & Algorithms, and CS2100 Computer Organisation

## EXPERIENCE

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### Software Engineer, Millennium Capital

Feb 2025 – Present

- Built and deployed a data pipeline to deliver cash balance data feeds, enabling business users to query data through AWS across multiple environments.
- Designed and implemented a configurable exception error code system to handle overflow scenarios in ETL pipelines, enabling dynamic error mapping and allowing for easy future extensions.

### Site Reliability Engineer Intern, GXS Bank

Sep 2024 - Dec 2024

- Developed and optimized shell and YAML scripts to automate consistency checks for blue-green deployment strategy, reducing manual verification time.
- Automated sandbox cleanup with AWS Lambda, improving account management.
- Improved application security by scripting vulnerability detection and reporting.

### Software Engineer Intern, Millennium Capital

May 2024 - Aug 2024

- Developed a prototype application for efficient querying of historical Referenced Data, improving query time by up to 99%.
- Designed database tables and tested performance across various optimization techniques.
- Estimated costs for cloud migration by analyzing current infrastructure and utilizing cloud pricing models, enabling informed decision-making and budget planning.

### Software Engineer Intern, PayPal

May 2023 - Dec 2023

- Optimized backend flows by utilizing caching to reduce database calls, improving component runtime efficiency by 75%.
- Upgraded existing CI pipeline to include more robust security and reliability checks.
- Enhanced error detection capabilities in existing applications through live logging.
- Upgraded regression testing framework to include test cases generated by live payloads.

## PROJECTS

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### MessageMatcher, Full Stack Developer

Mar 2024 - Apr 2024

- Built a marketplace platform connecting freelance masseurs who provide at-home services with the public leveraging on various Amazon Web Services.
- Designed and implemented the user interface with ReactJS and Material Tailwind CSS.
- Integrated the user interface with backend services such as AWS Lambda, DynamoDB and S3

### TikTok Hackathon Challenge 2023 Finalist, Backend Developer

Sep 2023

- Built an e-wallet application that allows users to make P2P transfers, withdraw and deposit using PayPal's Sandbox account, and view past transactions.
- Assisted in the designing of schemas and trigger functions, and the integration of external APIs like SendGrid and PayPal.

### FrieNUS, Co-developer

Apr 2022 - Aug 2022

- Built a social application empowering users to connect, chat, search and edit profiles while recommending profiles to users based on similarity using React Native, UI kitten, and Firebase.
- Wrote documentation involving UML diagrams, test cases, and development principles and decisions.

## **SKILLS**

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Java, Python, Scala, Spring, PostgreSQL, Spark, Iceberg, AWS, Kafka, Firebase, Jenkins, SonarQube, Bash

## **EXTRA CURRICULAR ACTIVITIES**

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Varsity Athlete, NUS Esports

Aug 2021 - Aug 2022

Programmes Executive, NUS Kayaking

Aug 2022 - Aug 2023