DARREN WAH

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EDUCATION

National University of Singapore   **Aug 2021 - Dec 2024**
Bachelor of Computing in Computer Science (CAP 4.48/5.00)
- Expected Date of Graduation: Dec 2024
- Certificate of Distinction in Database Systems Focus Area
- Teaching Assistant for CS2040 Data Structures & Algorithms, and CS2100 Computer Organisation

EXPERIENCE

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   **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

MassageMatcher, 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

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

EXTRA CURRICULAR ACTIVITIES

Varsity Athlete, NUS Esports   **Aug 2021 - Aug 2022**