John Benedict Yan

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EDUCATION

National University of Singapore   **Singapore**
Bachelor of Computing (Honours) in Computer Science, **Graduating in May 2026**   2021 –2026
- Specialized in Software Engineering and Database Systems
- Coursework: Big Data Systems for Data Science, Software Engineering Principles and Patterns

National University of Singapore   **Singapore**
Bachelor of Business Administration (Honours) in Finance, **Graduating in May 2026**   2021 –2026
- Cumulative GPA: 4.43/5.0

SKILLS

- Languages: Java, JavaScript, TypeScript, Python, Go, HTML/CSS, Neo4j Cypher
- Technologies: AWS Suite (S3, RDS, EC2, Glue, etc), Docker, Kubernetes, Jest, React Testing Library, Django, Flask, Redux, Kafka, RabbitMQ, Apache Flink, Apache Spark, Expo, Express, Hadoop, Git, Socket.io, Kong Gateway, Consul, PySpark
- Databases: MySQL, PostgreSQL, MongoDB, Redis, AWS Cassandra, SQLite, Neo4j, Pinecone

EXPERIENCE

Government Technology Agency (GovTech), OneCV Team   **Singapore**
Software Engineering Intern   Jan 2024 – Jun 2024
- Piloted lambda data extraction to process up to 30 million records/hour to transform cold SFTP data to be exposed via API.
- Improved Frontend testing time by 60% by integrating React Testing Library and test parallelism within CI/CD pipelines.
- Streamlined user feedback to 3000 users from various micro-services by spearheading event sourcing for email notifications.
- Reduced developer cognitive load by 70% for resource authorization service by championing bespoke graph database design.

Samsung SDS Asia Pacific   **Singapore**
Software Engineering Intern   May 2022 – Jul 2022
- Piloted a company HR system, used by over 12,000 current and new employees, by engineering a Spring Boot application and migrating existing SQL code to utilize JPA and Hibernate ORM for scalability and maintainability.
- Utilized micro-service architecture, Docker, and Kubernetes, optimizing for service decoupling, independence, and resilience.

xFraso   **Singapore**
Software Engineering Intern   May 2022 – Aug 2022
- Designed and engineered a full-stack NextJS web application for user onboarding with a serverless MongoDB database.
- Developed a peer-to-peer decentralized lending protocol and NFT fractionalization solidity blockchain contracts in solidity.

OnlineMaid Pte Ltd   **Singapore**
Software Engineer   Aug 2020 – Dec 2021
- Engineered an aggregator platform, used by over 400 agencies for listings, document storage and digitalized signature system.
- Maintained infrastructure using Docker and AWS services (EC2, S3, RDS) focusing on high availability and fault tolerance.

LEADERSHIP & EXTRA CURRICULAR ACTIVITIES

Google Developer Student Club   **Singapore**
Head of Frontend Development, Project Virtual Supermarket   Jan 2022 – Jan 2023
- Led a team to spearhead the creation and deployment of an E-commerce application, revitalizing FoodBank donations and boosting monthly contributions by 30% through enhanced user experience and streamlined digital interface
- Reduced delivery time by 33% by leading and managing a team of software engineers through the development lifecycle.

St Paul Methodist School   **Timor Leste**
Volunteer   Jun 2017
- Organized and led a leadership camp for 100 students in Timor Leste, volunteering to teach essential Math, Science, English, and leadership skills; greatly enhanced educational opportunities for low-income individuals through targeted learning.

Work Authorization

- Singapore Citizen: Eligible for the H-1B1-Singapore Visa, which has a separate quota from the limited H-1B pool.