

# JOHN BENEDICT

SG, Singapore | (+65) 87268836 | [apps.johnbenedict@gmail.com](mailto:apps.johnbenedict@gmail.com) | <https://linkedin.com/in/johnbenedictyan>

## WORK EXPERIENCE

### Squarepoint Capital, Risk Data Pipelines

Singapore

Software Engineering Intern

May 2025 – Aug 2025

- Built scalable, configuration-driven ETL pipelines to ingest 1M+ global trade data daily for firm-wide consumption.
- Partnered with product teams to redesign data normalization processes, cutting error rates and manual trade bookings by 60%.
- Benchmarked and configured Parquet-based database to reduce query time by 5x compared to traditional Postgres databases.
- Developed and maintained data services enabling real-time querying and correction of errors via Web UI and KDB+/q.

### Government Technology Agency (GovTech), OneCV Team

Singapore

Software Engineering Intern

Jan 2024 – Jun 2024

- Designed and implemented scalable data pipelines using Golang, processing 30M+ records/hour to expose cold SFTP data via APIs, contributing to real-time data availability.
- Enhanced frontend performance by 60% using React Testing Library and CI/CD optimizations, ensuring faster iterations.
- Led event-sourcing initiatives to improve communication for 3000+ users, integrating microservices for seamless notifications.
- Developed a bespoke graph database to simplify resource authorization, cutting developer cognitive load by 70%.

### Samsung SDS Asia Pacific

Singapore

Software Engineering Intern

May 2022 – Jul 2022

- Developed and optimized an HR system for 12,000+ employees using Spring Boot, ensuring seamless scalability by migrating SQL to JPA/Hibernate.
- Applied microservice architecture principles with Docker, improving system reliability, independence, and resilience.

### xFraso

Singapore

Software Engineering Intern

May 2022 – Aug 2022

- Built a full-stack web application using Next.js and MongoDB, accelerating onboarding and improving user engagement.
- Created decentralized lending and NFT fractionalization contracts in Solidity, contributing to innovative financial solutions.

## EDUCATION

### National University of Singapore

Singapore

Bachelor of Computing (Honours) in Computer Science, **Graduating in May 2026**

Aug 2021 – May 2026

- Specialized in Software Engineering and Database Systems

### National University of Singapore

Singapore

Bachelor of Business Administration (Honours) in Finance, **Graduating in May 2026**

Aug 2021 – May 2026

- Cumulative GPA: 4.66/5.0 – Highest Honour
- Relevant Coursework: Options & Futures, Portfolio Management, Fintech Management.

## 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

Singapore

Volunteer

Jun 2017 – Jul 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.

## TECHNICAL SKILLS

- **Languages:** TypeScript, Golang, Java, JavaScript, Python, HTML/CSS
- **Frontend:** React, Redux, Next.js, Jest, React Testing Library, GraphQL, React Hook Form, Zod
- **Backend:** FastAPI, Node.js, Express.js, Flask, Django, Gin, Spring Boot, Prisma
- **Infrastructure:** AWS Suite, Docker, Kafka, RabbitMQ, Apache Flink/Spark/Hadoop, Git, Socket.io, Ngnix
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis, AWS Cassandra, SQLite, Neo4j, Pinecone
- **Data Engineering:** Pandas, PyArrow, Numpy