

Sanfo Bimal Thomas

+65 9022 2894 | sanfo.bt@gmail.com | [LinkedIn](#) | [GitHub](#) | sanfo.me

EDUCATION

National University of Singapore

Aug 2024 – Dec 2027

Bachelor of Computing (Honours) in Computer Science, 2nd Major in Mathematics

EXPERIENCE

Full Stack Developer Intern

Spring 2026

Clickr Media

Singapore

- Maintained full-stack infrastructure for DBS Group's corporate platform using Svelte, Node.js, and PHP, with **AWS-managed deployment** and production rollouts.
- Engineered high-performance backend services for high-traffic eCommerce sites, **optimizing state management and API throughput** in AWS microservices architecture.
- Implemented web analytics and event tracking across distributed platforms while maintaining optimal frontend performance.

Software Developer

Summer 2024

TechNTile

Singapore

- Designed the startup's core web platform from the ground up, establishing the foundational architecture.
- Engineered hardware-software **integration pipelines utilizing Python and Ruby**, writing scripts to **automate the testing** of specialized hardware systems embedded within tiles.

PROJECTS

Mini-Kafka (Distributed Message Queue) | *Go, Docker, GitHub Actions, HTTP/REST*

- Developed a multi-threaded publish-subscribe message broker in Go with lock-free concurrent reads via append-only logs and offset-indexed storage.
- Built distributed 3-node cluster using consistent hashing for topic routing with transparent HTTP reverse proxy across broker nodes.
- Implemented thread-safe concurrency primitives (sync.RWMutex, sync/atomic), validated through **50-goroutine stress tests with 5,000+ concurrent messages in 28.39s** and zero data races.

Limit Order Book Matching Engine | *C++, GTest, CMake, Docker, GitHub Actions*

- Developed a high-performance limit order book matching engine in C++, achieving **96.62 ns/order average latency and 10.35M ops/sec throughput** with custom price-level data structures.
- Automated latency benchmarks and Docker containerization
- Implemented CI/CD pipeline via GitHub Actions with automated Google Test suites and Valgrind memory leak checks for code quality assurance.

OweNUS | *Python, React Native, TypeScript, WalletConnect, PostgreSQL, Expo*

- Architected a real-time social lending platform in TypeScript and React Native, integrating **WalletConnect for decentralized cryptocurrency settlements** with secure cryptographic authentication and asynchronous on-chain transaction verification.
- Engineered a **TensorFlow credit-scoring engine** to model behavioral friction and calculate debt-repayment probabilities, with data pipelines ensuring eventual consistency and fault tolerance across distributed clients, achieving the highest technical evaluation tier (Artemis Level).

ACHIEVEMENTS

Meta Hacker Cup Round 2

Fall 2025

Top 5000 participants

TECHNICAL SKILLS

Languages: C/C++, Go, Python, TypeScript/JavaScript, Java, PHP, Ruby, SQL (PostgreSQL)

ML & Data: TensorFlow, NumPy, pandas, Matplotlib

Backend & Web: Node.js, Flask, React, Svelte, React Native, Supabase, Firebase, HTML/CSS

Infrastructure & Tools: Docker, GitHub, Jenkins, AWS ES, Git, Make, CMake, GTest, JUnit

Architecture & Concepts: Distributed Systems, Concurrency, Message Brokers, RESTful APIs