Bing Yu Yap

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EDUCATION

Bachelors of Science, Computer Science, Singapore Management University

Aug 2020 — May 2024

- Dean's List AY 2020/21, On Track for Magna Cum Laude
- Relevant Coursework: Design and Analysis of Algorithms, Operating Systems, IT Solution Architecture

WORK EXPERIENCE

Dust Labs

Oct 2022 - Present

Software Engineer

Santa Monica, CA (Remote)

- Led the white-labeling of the backend into a client-agnostic service, minimizing additional development efforts for new clients. Implemented the **Domain Driven Design** methodology to guarantee code adaptability and maintainability.
- Developed a **Gin** backend server to streamline infrastructure creation for a range of software applications chosen by clients, cutting deployment time by over **12 hours per client**.
- Led the backend development for an NFT explorer, aggregating real-time on-chain data for the y00ts/DeGods collection.
- Enhanced backend service response time by 90% using Amazon ElastiCache for Redis, caching real-time data while preserving data consistency across multiple Kubernetes pods.

De Labs

Jun 2022 — Oct 2022

Backend Engineering Lead

Los Angeles, CA (Remote)

- Led the backend development for the <u>y00ts NFT</u> scholarship and approval process, streamlining the review and approval of applications for NFT minting. System was used by over **34,000** applicants and **30** reviewers during a **2-week period**.
- Designed a bot to tweet scholarship approvals, boosting <u>DeGods</u> market cap by **50MM USD** through promotional efforts.
- Developed the backend for <u>t00bs mint</u>, incorporating the use of token gating and wallet delegation systems.
- Implemented an in-house payment system using Express.js to automate SOL and Solana Program Library (SPL) token transactions. This system facilitated royalties splitting and weekly payslip distribution.

ByteDance/TikTok

Dec 2021 — Aug 2022

Backend Engineering Intern

Singapore, SG

- Enhanced batch keyword addition performance by 95% using Go concurrency, increasing keyword capacity from 2,000 to 50,000 words per import on the sensitive word management platform.
- Boosted export keyword feature performance by 85%, cutting wait time by 10 minutes per export.
- Improved the sensitive text approval system to resolve text safety policy conflicts between applications, such as TikTok and Douyin, and regions, like the US and China, boosting process efficiency.
- Developed a suite of microservices for text normalization and detection, handling **5,000 queries per second** and used department-wide to reduce costs and improve scalability.

Solana.FM

Jul 2021 — Nov 2021

Backend Engineering Intern

Singapore, SG

- Developed a .NET-based hosted service to publish unindexed Solana blocks to RabbitMQ, which were then consumed by a Rust-based block indexer.
- Further increased the hosted service's efficiency by 3,000 blocks per minute.
- Optimized block indexer to improve the indexer's efficiency by upgrading from Diesel to pure **Rust** and **Tokio-postgres**.

SKILLS

Programming Languages Frameworks Java, C, C++, C#, Go, Rust, Python, JavaScript, TypeScript, SQL

Spring Boot, .NET, KiteX, Gin, Express.js, Ruby on Rails

Technologies GraphQL, RabbitMQ, MongoDB, MySQL, PostgreSQL, Redis, Git, Jira

Docker, Kubernetes, Tilt, AWS (EC2, Fargate, SQS, Lambda), Cloudflare (R2, Workers)