

# ALAN MATTHEW

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## EDUCATION

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### Yale-NUS College

Bachelor of Science in Math and Computer Science; Minor in Economics; GPA: 4.86/5.00

Singapore

May 2025

**Relevant Coursework:** Parallel Programming, Programming Language Design, Machine Learning

**Professional Certification:** AWS Cloud Practitioner

**Awards:** Kewalram Chanrai Full Scholarship

## EXPERIENCE

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### Evooq

Software Engineering Intern

Swiss Wealth and Asset Management SaaS

Jan 2024 - Apr 2024

- **GenAI Trading Tool:** Built a **Python** application that uses large language models to generate trading strategies, simulate these strategies on historical data, and produce a report on the performance.
- **Chatbot for Querying Data:** Engineered a **Python**-based chatbot leveraging large language models for querying data and generating charts from a **MariaDB** database through natural language prompts.

### Hatcher+

Software Engineering Intern

Singaporean Venture Capital SaaS

May 2023 - Aug 2023

- **Data Parsing Microservice:** Engineered a **Python** microservice from scratch to parse excel company capitalization documents into structured JSONs using a large language model, saving data entry time.
- **Employee Leave System:** Built an employee leave system using **Vue.js**, **Laravel**, and **MySQL** to handle employee data, manage leave requests, and display leave information on employee calendars.
- **Investment Data Smart Contract:** Authored a smart contract in **Golang** to store investment information on the AWS Hyperledger Fabric blockchain network to facilitate reliable data storage.

### Switchero Labs

Software Engineering Intern

Singaporean Cryptocurrency Exchange

Oct 2022 - Dec 2022

- **Consolidated Search API:** Created a **Golang** API to aggregate and consolidate data from multiple databases into a single, unified API call, simplifying the information search process for 96,000+ users.
- **Market-Pool Linkage:** Leveraged **Golang** to automatically link markets and liquidity pools, eliminating manual work and securely allocating USD \$130+ million of capital across the exchange.
- **Transaction Service & UI:** Implemented a microservice in **TypeScript** to monitor and collect data on CDP transactions and visualize the trading activities using **React**, serving 35,000 daily visitors.
- **Telegram Bot for Blockchain Monitoring:** Created a Telegram Bot using **TypeScript** and **Redis** to alert the team about stalled Carbon blockchain transactions, increasing the resolution speed by 83%.

### Investree

Software Engineering Intern

Jakarta P2P Fintech Lending

May 2022 - Aug 2022

- **Investment Dashboard Enhancement:** Implemented new features using **Vue.js** and **Kotlin** to improve the presentation of financial statements and key metrics, boosting user reviews by 17%.
- **Covenant Page Development:** Designed and developed a covenant page from scratch using **Vue.js** and **Kotlin**, simplifying the contractual agreement process for over 59,000 business loans.
- **RESTful API Development:** Developed and deployed RESTful APIs in **Kotlin** for data querying, processing, and validation from **Postgres** databases, serving the frontend needs of over 100,000 users.

## SKILLS

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**Languages:** C++, Python, TypeScript, JavaScript, OCaml, Golang, Scala, Kotlin, PHP, SQL, tCPA

**Frameworks:** React, Vue.js, Next.js, Express.js, Flask, Laravel, AWS (Lambda, DynamoDB)