ALAN MATTHEW

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EDUCATION

Yale-NUS College

Singapore

Bachelor of Science in Math and Computer Science; Minor in Economics; GPA: 4.80/5.00

May 2025

Awards: Recipient of the Kewalram Chanrai Scholarship

Relevant Coursework: Database Systems, Distributed Computing, Functional Programming

Professional Certification: AWS Cloud Practitioner

EXPERIENCE

Hatcher+

AI Driven Venture Capital in Singapore

May 2023 - Aug 2023

Software Engineering Intern

- Data Parsing Microservice: Engineered a Python microservice on AWS from scratch to parse excel company capitalization documents into a structured JSON file, reducing manual labor costs by 13%.
- Employee Leave System: Independently built an employee leave system using Vue.js, Laravel, and MySQL to handle employee data and manage leave requests, boosting HR efficiency by 20%.
- Investment Information Smart Contract: Authored a smart contract using Golang that stores investment data for investment management on the blockchain, increasing user growth by 8%.
- Automated Translation Workflow: Programmed a PHP scheduler to locate untranslated strings in the codebase, predict English sentences using OpenAI, and apply language updates, saving 10h/week.
- Slack Bot for System Monitoring: Developed a Python Slack Bot to monitor web scraping bot health, analyze scraped data, and report to engineering Slack channel, reducing support costs by 8%.

Switcheo Labs

Cryptocurrency Exchange in Singapore

Nov 2022 - Dec 2022

Software Engineering Intern

- Consolidated Search API: Architected a Golang API to aggregate data from multiple databases into a unified API call; optimized retrieval for 96,000+ users, cutting query time by 40%.
- Market-Pool Linkage: Leveraged Golang to auto-link markets and liquidity pools, eliminating manual work and and securely allocating all USD \$130+ million of capital across the exchange.
- Transaction Service & UI: Implemented a TypeScript service with Redis to handle Switcheo's DEX debt transactions and visualize trading activities with React, serving 35,000 daily visitors.
- Telegram Bot for Blockchain Monitoring: Built a TypeScript Telegram Bot with Redis to alert the team about stalled Carbon blockchain transactions, increasing resolution speed by 83%.

Investree

P2P Fintech Lending in Jakarta

Software Engineering Intern

May 2022 - Aug 2022

- Investment Dashboard Enhancement: Implemented new features with Vue.js and Kotlin, improving 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 small business loans.
- **RESTful APIs Development**: Constructed and deployed RESTful APIs using **Kotlin** to query, process, and validate data from **PostgreSQL** databases for the frontend for over 100,000 users.

SKILLS

Languages: C++, Python, TypeScript, JavaScript, Golang, Scala, Kotlin, OCaml, PHP, SQL Frameworks: React, Vue.js, Next.js, Express.js, Flask, Laravel, AWS (Lambda, DynamoDB)