ALAN MATTHEW

28 College Avenue West, Singapore | +65 8425 5742

alan.matthew.yk@gmail.com | linkedin.com/in/yokurang | github.com/yokurang | https://yokurang.com

EDUCATION

Yale-NUS College   Singapore
Bachelor of Science in Math and Computer Science; Minor in Economics; GPA: 4.86/5.00   May 2025
Relevant Coursework: Parallel Programming, Programming Language Design, Machine Learning
Professional Certification: AWS Cloud Practitioner
Awards: Kewalram Chanrai Full Scholarship

EXPERIENCE

Evooq   Swiss Wealth and Asset Management SaaS
Software Engineering Intern   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+   Singaporean Venture Capital SaaS
Software Engineering Intern   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.

Switcheo Labs   Singaporean Cryptocurrency Exchange
Software Engineering Intern   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 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   Jakarta P2P Fintech Lending
Software Engineering Intern   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

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)