Leong Yu Zhi Andy Full Stack Development | DevOps | Cybersecurity

HP: +65 96446274 | Email: <u>leongandy026@gmail.com</u>

LinkedIn: <u>https://www.linkedin.com/in/andy-leong-9bb486272/</u> | Github: <u>https://github.com/timelesclock</u> Internship: 9 Sept 2024 – 7 Feb 2025

Summary

Highly motivated learner aspiring to be a full stack developer with a strong interest in DevOps and Cybersecurity. Enjoys creating secure and scalable solutions and systems that solve real-world problems. Worked with a wide variety of technologies, including frontend frameworks such as React, backend technologies such as Express and Spring and cloud platforms such as AWS and Azure. Experienced in integrating security best practices into the development process to ensure application and infrastructure security. Proficient in using DevOps tools and methodologies such as continuous integration and deployment (CI/CD), containerization with Docker and infrastructure as code using Terraform.

Skills Info:

Full Stack Development

- Proficient in designing and developing full-stack web applications using modern technologies such as HTML, CSS, JavaScript, React, Node.js, and Express.js.
- Experience in working with various databases like PostgreSQL, MySQL, and MongoDB to store and retrieve data efficiently.
- Skilled in integrating frontend and backend components seamlessly, ensuring smooth user experiences and optimal performance across different devices and platforms.

DevOps

- Knowledge of DevOps principles and practices, including continuous integration and continuous deployment (CI/CD), infrastructure as code, and automated testing.
- Familiarity with cloud platforms such as AWS and Azure, utilising services like AWS Lambda, AWS S3, and Azure VM to deploy and manage applications effectively.
- Experience in using containerization technologies like Docker and orchestration tools such as Terraform to streamline application deployment and infrastructure management.

Cybersecurity

- Understanding of fundamental cybersecurity concepts, including network security, vulnerability assessment, and threat mitigation techniques.
- Participated in capture the flag (CTF) challenges and workshops, gaining hands-on experience in identifying and exploiting vulnerabilities in simulated environments.
- Knowledge of secure coding practices and the ability to identify and remediate potential security risks in application development processes.

Areas of Expertise

Front-End Development:	HTML CSS JavaScript React TailwindCSS Bootstrap MUI Radix UI
Backend Development:	Node.js Express.js NextJS Python tRPC TypeScript SocketIO
	Spring Boot
Cloud Computing:	AWS Lambda AWS S3 AWS ECS AWS EventBridge Azure VM Docker
	Terraform
Database Management:	PostgreSQL MySQL MongoDB MS SQL
Design:	Figma
DevOps:	Git Nginx

Projects

PracticeMe

Project Link: https://socpracticeme.vercel.app/

- Co-Developed with a group of students to create a full stack gamified website fork of a command line tool aimed at helping SP students to enhance their Javascript skills.
- Utilised the NextJS framework, with PusherJs as a Websocket service and MongoDB as the database and Sanity • CMS to push announcements more efficiently.
- Currently maintaining the project for future batches to be used in their Fundamentals of Programming module. •

Project INC

- Worked with 11 other students using the agile scrum methodology to deliver a full-stack digitalised solution for Institute of Management Consultants (Singapore) (IMCS) that will serve up to 500 users.
- Utilised the T3 stack, consisting of NextJS, tRPC, Prisma, TailwindCSS and Typescript while deploying on the • AWS cloud using Docker and Terraform.

SST Whiteboard

Project Link: https://whiteboard.timeles.dev Github Link: https://github.com/TimelesClock/SST-Whiteboard

- Side project in creating a multi-user whiteboard tool for Project INC with SST as the IAC (Infrastructure as code) to deploy into AWS using open-next.
- Utilised NextJS as the basic frontend, the TLDraw library for the whiteboard and Socket.io as the websocket server.

T₃ Flow

Github Link: https://github.com/TimelesClock/t3-flow

- Side project with another student to create a multi-user collaboration flowchart tool using the React-flow library.
- Utilised the T3 Stack consisting of NextJS, tRPC, Prisma and Typescript. •

Project Swifty

Project Link: https://swifty.timeles.dev

- Worked with 3 other students for a full stack development assignment.
- Utilised the NextJS framework to create a real-time chat application with a Socket.io backend server and AWS • S3 for multimedia storage.

Academic Qualifications

Singapore Polytechnic Diploma in Information Technology Achieved Distinction In: Fundamentals of Programming, Fundamentals of Computing, Backend Development Current CGPA: 3.70

Anglo-Chinese School (Barker Road) GCSE 'O' Level L1R5: 13 | L1R4: 9

Awards & Achievements

Top in Cohort for 'O' level Computing

Sentinel Program SHIELD Award

6th place in Lag and Crash CTF

May 2023 - Current

Sep 2023 - Current

Nov 2023 - Dec 2023

Oct 2023 - Nov 2023

May 2023 - Aug 2023

Apr 2022 - Apr 2025

Jan 2019 – Dec 2021

2021

2024

2024

Certificates	
Hackerrank SQL Basic	2023
Hackerrank SQL Intermediate	2023
Hackerrank Python Basic	2023
Hackerrank Javascript Basic	2023
Sentinel Programme Cyber Data Analysis	2023
Sentinel Programme Network Forensics	2023
Sentinel Programme Malware Analysis	2023
Sentinel Programme Cyber Threat Intelligence	2023
Co-Curricular Activities	
SEED Student Interest Group – Singapore Polytechnic Project Manager	May 2022 - Current
 Involved in organising workshops and competitions for students' enrichment in the com Led administrative efforts for events and workshops, ensuring seamless execution of the 	
Gryphons Student Interest Group – Singapore Polytechnic Member	May 2023 - Apr 2024
 Involved in creating CTF (Capture the flag) challenges such as Gryphons CTF 2023. 	
SP Table Tennis – Singapore Polytechnic Captain (2023 - 2024) Vice President (2024 - Current)	Apr 2023 - Current
• Successfully worked with and led the team to win the inter-school championship (PoLIT years.	E) for two consecutive
ACSBR Table Tennis – Anglo-Chinese School (Barker Road)	Feb 2019 - Oct 2021

Captain

- Successfully led the team to achieve top 3 in the Inter-school zonals competition for 2 years.
- Implemented a basic physical training program for the members during the Covid-19 period.