




# Lim Tow Ann, Mario

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 JavascriptAddict

## Experience

### MINDEF | DIS

*Cyber Security Specialist (Contract)*

Oct 2020 – Jul 2023

- Cyber Security Task Force (CSTF)
- Investigate cyber cases as part of the Cyber Incident Response Team (CIRT)
- Performed triage and digital forensics to obtain key evidence
- Presented findings, analysis, and recommendations to major stakeholders
- Perform Network Security Audits (NSA) as part of system audit functions
- Developed triage tools to improve existing processes

### Hitachi Asia R&D Center

*Software Engineer Intern*

Jul 2019 – Feb 2020

- Researched and developed Drone-based Aerial Surveillance System
- Tasks included the development of aerial navigation, video analytics, and data transmission technologies

## Academics and Education

### Publications

Zheng Yang Davis, Ken Kwok Sheng Tong, Mario Tow Ann Lim, Wei Jie Chan, Wei Han Goh "AfterImage: Evading Traditional Indicator of Compromise (IOC) Blocking" 2023 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI), Singapore, 2023, pp. 1-6, doi: 10.1109/SOLI60636.2023.10425081

### Singapore Institute of Technology | University of Glasgow

2023 – 2026

*Bachelor of Science with Honours in Computing Science*

- Kuok Khoon Hong (KKH) Scholarship AY24/25
- Kuok Khoon Hong (KKH) Scholarship AY23/24

### Singapore Institute of Technology

2021 – 2023

*Specialist Programme in ICT (Information Security)*

- MINDEF Cyber Specialist Award

### Temasek Polytechnic

2017 – 2020

*Diploma in Information Technology with Merit*

- Singapore Computer Society Project Prize Award
- Admitted into the Director's List for AY17-19
- Awarded the TP Freshmen Scholarship for outstanding PFP performance

## Project Experience

### CCTV Monitoring System | Panasonic R&D Center Singapore

*Full-Stack Developer*

Aug 2024 – Present

- Liaise and communicate with stakeholders for project requirements
- Design and implementation of CCTV system stack
- Research and implementation of AI object detection and video streaming

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## AfterImage | Black Hat USA 2023 | IEEE SOLI 2023

Full-Stack Developer

Aug 2023 – Aug 2023

- Researched and designed dynamic proxy tool for red team
- Implemented designed architecture into working POC
- Conducted tests to evaluate performance and reliability

## Cyber Triage Tool | MINDEF | DIS

Lead Developer

May 2022 – Sep 2022

- Researched and developed an artifacts triage tool for cyber incidents
- Catered to various operating systems and tested for compatibility
- Presented ideas and POC to stakeholders for further development

## Aerial Surveillance System | Hitachi Asia R&D Center

Software Engineer Intern

Jul 2019 – Feb 2020

- Adapted existing software implementation from decommissioned drone
- Ensured software and hardware integration with enterprise drone
- Implemented AI components such as objection detection and tracking
- Enhanced web dashboard for live view and control station

## Leadership & Activities

### STSCIN Hackathon 2024

Runner-Up | Participant

Nov 2024 – Nov 2024

- Runner-up for the STSCIN Hackathon 2024
- Ideated and developed Real-Time Real Estate Market Analysis web application
- Participated in workshops and activities at Universiti Sains Malaysia in Penang

### SIT Community Challenge

Mentor | Facilitator

Nov 2024 – Nov 2024

- Guided and mentored secondary students during robotics workshop
- Engaged with students to encourage active participation
- Provided insights into design thinking and innovation

### University of Glasgow Singapore Hackathon 2024

Student Mentor

Oct 2024 – Oct 2024

- Provided insights into technical aspects of ideation to polytechnic students
- Guided and mentored students in solving problems under UN SDG
- Encouraged active discussion and participation within team members

### Institute-Varsity-Polytechnic Games (Table Tennis)

Player | Participant

Feb 2024 – Feb 2024

- Participated as a player in the main team

### HacX! Hack for Public Safety! Hackathon 2023

Semi-Finalist | Participant

Sept 2023 – Sept 2023

- Designed and developed MyTenant mobile app for foreign tenant verification
- Implemented OCR for obtaining information easily from tenant passes

## Skills & Interests

### Technical

- Python, C, NodeJS, Java, JavaScript, PHP, SQL, MongoDB, ReactJS, Flutter, Networking, DFIR, Malware Analysis

### Interests

- Coffee Brewing, Table Tennis, Badminton