# Ong Swee Seng

## PROGRAMMER / ENGINEER / DEVOPS

## **Objective**

As an individual, I am deeply fascinated with how technology works and its remarkable advancement, particularly in recent years. It is truly astonishing to think that modern smartphones possess far greater computing power and memory than what was used to guide the Apollo rocket.

With such incredible leap in technological advancements and by leveraging my extensive expertise and experience in programming, engineering, and DevOps, I aim to implement scalable and reliable systems that can meet complex business needs.

By automating the deployment pipelines, optimizing system performance, and fostering collaboration across development, operations, and engineer team, I aim to drive operational efficiency, enhance software delivery processes, and contribute to the successful outcome of innovative and forward-thinking organizations.

## Work **Experience**

2023 - Current

### ST Engineering Info-Security **Professional Service Engineer**

- Responsible for deployment and maintenance of Data Diode and its derivative products to ensure secure, oneway data transfer in high-security products.
- Liaised with customers to understand requirements, provide support and ensure solutions that align with their specific needs and expectations.
- Provided on board and training for internal teams and external clients.
- Setting up of Virtual Machines for testing and demonstration purposes.
- Designed and implemented Bash scripts to automate repetitive tasks, streamline workflows, and enhance efficiency with regards to demonstration and testing purposes.

2020 - 2023

#### **ASE Singapore Pte Ltd** Assistant IT Programmer

Managed the deployment, implementation, and ongoing maintenance of in-house applications that utilize both .NET and .NET framework.

2019 - 2020

#### **Quality Coin** Online Sales Manager

Oversaw communication, sales coordination, and delivery of goods.

2017 Viziofly **Programmer** Primarily responsible for developing applications for HTC Vive, Samsung Gear, and Google Daydream platforms. Contributed to the creation of Android plugins for Unity to enhance functionality. 2021 - 2024Singapore University of Social Sciences (SUSS) Education **BSc Information and Communication Technology (Degree)** Graduated 2024 | CGPA: 4.16/5.0 2014 - 2017 Nanyana Polytechnic (NYP) Game Development & Technology (Diploma) Graduated 2017 | GPA: 3.16/4.0 Committee: Treasurer, SIDM Club 2015/16 2023 - Current **Data Diode and Derivative Products Projects Professional Service Engineer** Responsible for installation and deploying of Data Diode and its derivative products in secure environment, ensuring that sensitive data only flows one direction only. Diagnose and resolve any issues related to Data Diode and its derivative products. Provide guidance on best practices for the integration of Data Diode into existing systems. 2024 **Automate MAC Address Configuration for Production Professional Service Engineer** Designed and wrote a Bash script to automate the process of updating a system's MAC address across various models. Script is dynamic and can be easily configurable, allowing for more flexibility and adaptability. 2020 - 2023**Mobile Scanner IT Assistant Programmer** Responsible for developing, integrating, and maintaining mobile scanners for both Windows Mobile and Android platforms, supporting various departments. Automatic Guidance Vehicle (AGV) 2020 - 2023**IT Assistant Programmer** Integration of Vendor and Internal systems. Created Android Application that allowed production personnel to control AGVs.

**Unilever AR Experience** 

game states.

and overall experience.

Took the lead in designing and implementing the core logic, including mechanisms that drive player interactions

Managed the seamless transitions between different

**Programmer** 

Managed and maintained online sales platform to drive

digital revenue growth.

2019

2017 **Montblanc Timewalker Prix** Programmer Primarily responsible for designing and implementing the user interface and integrating social media platforms, including Facebook and Instagram. 2016 **Nemesis Perspective** Artificial Intelligence (AI) Programmer Developed the AI for the hero character using decisionbased loaic. Achieved recognition as the first-ever Virtual Reality (VR) Indie Pitch Winner. 2023 **NS Excellence Award** Honors and Recognized for exceptional performance during my awards Operationally Ready National Service (ORNS) training. 2016 **NYP Star Awards** Recognized for outstanding academic performance and excellence in extracurricular activities. 2013 **EAGLES Awards** Recognized for exemplary leadership qualities. 2012 **Good Progress Award** Recognized for significant improvement in academic performance and consistent effort in studies. 2024 Cisco Certified Network Associate (CCNA) - Completion **Professional** NTUC Learning Hub, Singapore training Gained hands-on knowledge on network design, configuration, and troubleshooting using Cisco technologies. Red Hat System Administrator (RH124) – Attendance 2022 Singapore University of Social Sciences, Singapore Acquired foundational Linux system administration skills, such as user management, file permission, and basic system troubleshooting 2022 Information Technology Infrastructure Library (ITIL) Foundation Singapore University of Social Sciences, Singapore Developed and understanding of IT Service Management principles, including service delivery and customer satisfaction improvement. 2022 Transactional Analysis (TA101) SeraphCorp Institute, Singapore Learned psychological frameworks to improve communication, resolve conflicts, and build effective relationships in professional settings.

In charge of integrating the art assets.

2020 **CASUN SLAM AGV Software Training** 

Innogreen Solution Pte Ltd, Singapore

Hands-on experience with CASUN's SLAM-based software for AGVs, including system integration, troubleshooting, and optimizing of navigation routes for automated material

handling solutions.

Languages

English

Intermediate (Spoken and Written)

Chinese

Intermediate (Spoken and Written)

**Skills** 

Programming Language(s)

C++ C#

Java

JavaScript / TypeScript

Bash HTML / CSS Python

Framework(s)

.NET

.NET Framework

.NET MAUI Xamarin.Forms

WPF Winforms Angular React Flask

Apache Spark / PySpark

Database(s)

PostgreSQL MongoDB **SQLite** 

Microsoft SQL Server

Cloud Platform and Service(s)

Amazon Web Services - EC2

- S3

- Elastic IP - DynamoDB - Lambda - API Gateway

Development

Environment and IDE(s)

Visual Studio (2005 - 2022)

Visual Studio Code Android Studio

Unity3D Game Engine

Platform(s)

Windows / Windows Mobile

Android iOS / iPadOS

Linux

VR / AR

HTC Vive Samsung Gear VR

Google Daydream Unity AR Foundation Leap Motion

Virtualization(s) VirtualBox

VMware / ESXI Proxmox

Version Control(s) Github

SourceTree SmartGit TortoiseGit

CI/CD(s) Ansible

Jenkins Terraform Docker

Protocol(s) SMB / SAMBA

SFTP

HTTP / HTTPS SMTP TCP / UDP

Web Services (SOAP, ASMX, RESTful APIs)

Design and Photoshop Creative Tool(s) CorelDraw