

MAR LAR AUNG

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Full Stack Application Developer | Web & Desktop Solutions

PROFESSIONAL SUMMARY

Full stack developer with experience building desktop and web applications across both Microsoft and Linux environments. Skilled in developing robust WinForms and ASP.NET Core solutions with SQL Server, alongside Java-based backend systems using Spring Boot with SQLite and MySQL, deployed on Apache Tomcat with frontends built in HTML, CSS, JavaScript, and React.

Brings a balanced approach to backend logic and UI/UX design, with a strong track record delivering user-focused software in manufacturing, semiconductor, and casino technology environments where performance, precision, and reliability are essential.

SKILLS

| PROFESSIONAL

Critical Thinking
Structured Problem Solving
Analytical Mindset
Creative Thinking
Decision Making
UI/UX Awareness
Interpersonal Communication
Stakeholder Collaboration
Teamwork &
Knowledge Sharing
Continuous Improvement

| TECHNICAL

Languages

C#, Java
HTML, CSS, JavaScript
SQL, JSON, XML

Frameworks & Libraries

ASP.NET Core, .NET
Entity Framework, LINQ
Blazor, Razor Pages,
WinForms, WPF
Spring Boot
React, Bootstrap, jQuery

Front-End & UI

Responsive UI Design
UI/UX Design Concepts

Databases

SQL Server, MySQL,
PostgreSQL, MSSQL
SQLite

WORK EXPERIENCE

SENIOR SOFTWARE DEVELOPMENT ENGINEER

ASCENDZE PTE.LTD, SINGAPORE | 2022 OCTOBER - 2025 JULY

- Independently developed and deployed web and desktop applications using .NET with a primary focus on Windows Forms-based desktop apps for factory automation, alongside PLC programming for complete manufacturing line automation, from system design to final integration.
- Created Windows Forms applications for robotics and automation systems using C#, C++, and Python.
- Designed and implemented manufacturing control systems using ASP.NET Core and SQL Server, enabling real-time production tracking and reducing operator errors by 30%.
- Integrated SECS-GEM communication protocol for host and equipment applications.
- Developed algorithms for secure PLC-to-cloud data transmission via TCP/IP, supporting remote access and monitoring.
- Provided technical guidance and mentorship to associate engineers and interns on control systems and software development.

MANAGER (TECHNOLOGICAL DIVISION)

ANGEL SINGAPORE (ASIA) PTE.LTD, SINGAPORE | 2019 NOVEMBER - 2021 JANUARY

- Analysed customer data using SQL to identify procedural inefficiencies, improving the accuracy and performance of real-time surveillance algorithms.
- Developed internal applications and forms using Java for R&D, including database schema design for API integration.
- Improved authentication and authorization in the Angel Server centralized control system by implementing password hashing, role-based access control, and credential management.
- Built monitoring tools for DevOps environments, enabling load balancing diagnostics, data accuracy validation, and latency troubleshooting.

Databases

SQL Server, MySQL,
PostgreSQL, MSSQL, SQLite

Tools & Platforms

Visual Studio, Eclipse IDE
Git, GitHub, Azure DevOps
Postman
Technical Documentation
Version Control

Cloud & Deployment

CI/CD (basic knowledge)
REST API Integration
Apache Tomcat

Industrial & Domain-Specific

PLC Programming
SCADA Systems, Motion
Control, Machine Vision
SECS-GEM, Modbus/TCP
Serial COM, TCP/IP
System Integration

EDUCATION

| BACHELOR OF ELECTRICAL POWER ENGINEERING

Yangon Technological
University (YTU), Myanmar |
2006

| MASTER OF BUSINESS ADMINISTRATION

University of Nottingham (UK)
Global Campus Program –
China, Malaysia, Singapore (PSB
Academy)
MBA, 2019

PROFESSIONAL CERTIFICATES

| CS50B, CS50T

HarvardX via edX | 2021

PROFESSIONAL AFFILIATIONS

| MEMBERSHIP

Myanmar Engineering Society |
2006 – Present

SYSTEMS AND CONTROL SOFTWARE ENGINEER

*YAC SYSTEMS SINGAPORE PTE.LTD, SINGAPORE | 2018 DECEMBER – 2019
SEPTEMBER*

- Developed control systems and HMIs for fully automated stockers and wafer handling equipment using C++, C#, and multiple PLC platforms.
- Implemented wireless handshaking and communication protocols with AGVs, enabling seamless integration between robots, servo motors, AGVs, and the main production line with a focus on operational efficiency and safety compliance.

SYSTEMS AND CONTROL ENGINEER

*CASEM (ASIA) PTE.LTD (SUBSIDIARY OF MANUFACTURING INTEGRATION
TECHNOLOGY, MIT, SINGAPORE | 2013 MAY – 2018 NOVEMBER*

- Designed and managed end-to-end factory automation systems, including machines and production lines, to meet performance and delivery criteria.
- Optimized and enhanced PLC codebase, reducing machine downtime by 20% and enabling smooth production ramp-up.
- Performed yield analysis and quality control to align with international manufacturing standards and reduce product rejects.

ELECTRICAL DESIGN ENGINEER

*PANASONIC INDUSTRIAL DESIGN SINGAPORE PTE LTD, SINGAPORE | 2013
JANUARY – 2013 MAY*

- Designed and programmed automated machines for micro-electronic device manufacturing, consistently meeting tight delivery timelines.
- Created detailed operation manuals to support production managers, supervisors, and operators in efficient machine use, troubleshooting, and maintenance.
- Managed electrical component selection and hardware procurement, ensuring on-time project delivery within budget constraints.

SYSTEMS PROGRAMMER

FUJICON ENGINEERING PTE.LTD, SINGAPORE | 2011 APRIL – 2013 JANUARY

- Designed automated machines with feeders and pick-and-place systems for various manufacturers, consistently meeting tight delivery schedules.
- Developed control systems and user interfaces using RSLogix 5000, Keyence PLCs, Mitsubishi PLCs, Omron PLCs, and HMI platforms.

TECHNICAL SPECIALIST

*PODOYO PLASTICS INDUSTRY (M) SDN BHD (FOR CELESTICA SINGAPORE),
MALAYSIA | 2009 SEPTEMBER – 2011 MARCH*

- Monitored and troubleshooted fully automated production lines for printer cartridge manufacturing to ensure continuous operation and minimal downtime.

ASSISTANT ENGINEER

TSM CONSULTANCY PTE.LTD, SINGAPORE | 2008 AUG – 2009 MAY

- Conducted traffic surveys, performed data entry and analysis, and drafted road design proposals for LTA infrastructure projects, including technical report writing and documentation.