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# I am a passionate professional with a strong background in Full-Stack Developer, and have an unwavering desire to transition into the role of Solution Architect. My experience in ST Engineering allows me to have in touch with cloud engineering and took a strong liking to this profession. My job scope has equipped me with good understanding and deploying application into Kubernetes.

# My technical proficiency, problem solving skills and adaptability makes me a strong candidate for this transition. I am committed to continue learning and professionally develop myself for this role. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# EDUCATION

**Nanyang Technological University, Singapore** Aug 2019 – May 2022

# Bachelor of Engineering (Electrical Electronic Engineering)

* Specialised in Info-Communication Engineering
  + Honours

**Nanyang Polytechnic** Apr 2014 – May 2017

# Diploma in Electrical Engineering with Eco-Design

* Diploma with Merit (Top 5%)
  + Director List in Multiple Semesters

# ACADEMIC PROJECT

**Nanyang Technology University, Singapore** May 2021 – May 2022

# Final Year Project – Data Analytic for Energy Storage Safety

* + Researched on Lithium Battery Remaining Useful Life
  + Determined the best AI algorithm that suits for estimating State of Health and State of Charge parameters for calculating Remaining Useful Life of the Battery.
  + Simulated the battery Model with Simulink.
  + Python programming was used to operate Machine Learning and Deep Learning Programs

**Nanyang Polytechnic, Singapore** Oct 2016 – Jan 2017

# Final Year Project – Design a program to detect obstacles around the Driverless Vehicle

* + Developed a C++ Program by using Robotic Operating System (ROS) and Point Cloud Library (PCL) to obtaindata type from laser sensor
  + Optimised amount of memory used for the program for other purposes
  + Validated by using driverless vehicle in NYP and run the program in campus compound

# INTERNSHIP EXPERIENCE

**Beng Hock Mechanical Engineering Pte. Ltd** Aug 2020 – Dec 2020

# Electrical Engineering Internship

* + Implemented program for Self-Cleaning Toilet project using PLCNext Software.
  + Assisted deputy manager to improve SGBin Project.
  + Redesigned electrical circuit and update implemented features using Electrical AutoCAD.

**Singapore Technologies Engineering Ltd (Info-Comm System)** Jan 2017 – Apr 2017

# Defense, Public Safety and Security Systems, Intern

* + Analysed problems with engineers from other companies to improve defense of Singapore Armed Force.
  + Maintained and coded previous tracking systems to further eliminate errors and discomfort cause by the tracking system.
  + Managed development of the Seletar Camp installation for People Access System and Vehicle Access System.
  + Facilitated the teaching process on operation of system to users.

# WORK EXPERIENCE

**Singapore Technologies Engineering Ltd (Mission Software Services)** Jul 2022 – Current

# DataHub Integrations in Openshift Container Platform, Full Time

* + **Agile Methodology:** Adopted Agile Scrum Methodolody, leading to improved project progression and collaboration within the team.
  + **API Gateway Implementation:** Successfully implemented a RestAPI gateway using WebMethods API Gateway Management, enhancing data security and accessibility.
  + **mTLS Implementation:** Demonstrated a proficient understanding of mutual Transport Layer Security (mTLS) Encryption processes, ensuring data privacy and integrity. Documented clear graphical understanding to Project Team.
  + **Prototyping and Simulation:** Utilized NodeJS skills to create a JSON file-based server to simulate use cases, allowing for comprehensive testing and refinement of data solutions.
  + **OpenAPI and Swagger Implementation:** Designed and integrated OpenAPI and Swagger documentation for APIs. This included generation documentation, defining API contracts, and ensuring adherence to industry standards.
  + **Solution Design and Deployment:** Developed Helm Charts and Manifests to facilitate the seamless deployment of applications within the OpenShift Container Platform, ensuring scalability and reliability.
  + **Containerization:** Established a strong foundation in containerization (Dockerization), optimizing application delivery and management.
  + **CIS Benchmark Standards:** I possess a clear and in-depth understanding of the CIS (Center for Internet Security) Benchmark standards for both Docker Container and Kubernetes. This knowledge includes comprehensive grasp of best practices, security guidelines, and compliance requirements outlined in the CIS Benchmark documents for these technologies.
  + **Collaboration and Problem Solving:** Proactively engaged with Project Leader to address architecture and deployment challenges, providing well-researched, demonstrated solutions.
  + **OWASP Top 10 Expertise:** I have a strong understanding of the OWASP Top 10, which represents the most critical web application security risks. This expertise allows me to architect and implement secure and resilient web applications, safeguarding them from prevalent security threats.

**Singapore Technologies Engineering Ltd (Info-Comm System)** Jun 2017 – Aug 2017

# Intelligent Transport and Mobility Systems, Contracted Staff

* + Coordinated with project team to bring national level project to completion
  + Analysed new configuration, plan and schedule updates for software version and data deployment
  + Identified key problem areas and presented insights to supervisor for a smooth test ahead.

# CO-CURRICULAR ACTIVITIES

**School of Engineering Club** Jan 2015 – May 2017

# Executive Communities

**Freshman Orientation Human Resource In-Charge**

* + Analysed previous records and methods of promoting our events
  + Outreached to undergraduates help an increase of 50% compared to previous years
  + Entrusted to keep records of students’ information by using Excel and RFID reader

# SKILLS

**Language: Proficient in English and Chinese**

**Skills Set:**

* AutoCAD
* Electrical AutoCAD
* MATLAB
* C++
* C
* Python
* JavaScript
* HTML
* CSS
* PHP
* SQL
* Machine Learning
* Deep Learning
* Scikit Learn
* Tensor Flow
* PLC Ladder
* PLC Function Block
* HelmChart
* Bash Script
* Docker
* Kubernetes
* Openshift
* TLS
* OWASP
* CIS Benchmark Docker
* CIS Benchmark Kubernetes
* Web Services (WebMethods)
* Postgresql
* MySQL
* ElasticSearch
* Networking and Network Policy
* Security
* DevOps
* Agile
* Scrum
* Documentation Skills
* Problem-Solving