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EDUCATION

- **Singapore Institute of Technology** — Singapore
  BEng (Hons) Information and Communications Technology (Software Eng); GPA: 4.27 — *Aug. 2020 – Jan. 2024*

- **Singapore Polytechnic** — Singapore
  Diploma In Infocomm Security Management — *Apr. 2017 – Apr. 2020*

EXPERIENCE

- **A-Star: Advanced Remanufacturing and Technology Center (ARTC)** — Singapore
  Backend Programer — *Feb 2025 - Present*
  - **Data Ingestion**: Connected ERP, MES, PLM, and IoT sensors via NiFi and Node-RED.
  - **Kafka Streaming**: Streamed processed data to a Data Lake using Kafka topics for Agentic AI consumption.
  - **Cloud Native Deployment**: Containerized backend services using Docker and automated deployment with Kubernetes and Helm.

- **GetGo Carsharing** — Singapore
  Junior Developer — *Jan 2023 - Feb 2025*
  - **ASP .NET**: Developed the backend system for a Fleet Management System using ASP.NET and employing the **microservice** architecture, resulting in a significant 50% reduction in the time required to respond, resolve, and reactivate vehicles.
  - **SQL Database**: Used SQL to query data in a database. Used EF Core Library in .NET.
  - **Solace**: Developed Solace Producers and Consumers to allow inter-service communications.
  - **Data Dog**: Assisted the organisation in Distributed Tracing using Datadog.
  - **CI/CD (Jenkins)**: Implemented automated testing and deployment pipelines in Jenkins for GetGo 2.0.
  - **AWS**: Deployed services to AWS ECS and managed Task Definitions.
  - **Swift**: Successfully implemented enhancements in the Fleet Operator Application (iOS), leading to a notable 50% increase in the number of completed maintenance jobs.

- **Accenture** — Singapore
  Java Developer (Intern) — *Summer 2021 and 2022*
  - **Java**: Utilized Java programming to implement bug fixes in the UAT (User Acceptance Testing) environment, resulting in a 20% decrease in the delivery timeline and enhanced project efficiency.
  - **SQL Database**: Demonstrated proficiency in data mining techniques to gather accounts for testing purposes, contributing to comprehensive and thorough test coverage.
  - **Jenkins**: Acquired familiarity with Jenkins Pipeline, enabling the continuous deployment of code and driving a remarkable 20% improvement in customer experience through faster and more efficient software releases.

- **DBS Bank** — Sinapore
  Risk Analyst (Intern) — *Apr 2019 - Aug 2019*
  - **SharePoint Automation**: Automated the TS Audit Portal on SharePoint, reducing audit time by 30% and enabling greater focus on critical tasks.

PROJECTS

- **Data Analytic Dashboard (NHGP Polyclinic)**: Successfully develop a Data Analytic Dashboard using the **R Shiny Framework**, facilitating insightful data analysis and visualization.
- **Hotel Concierge Web Portal (SIT)**: Successfully guided the team in developing a robust **MVC (Model-View-Controller)** application using **ASP.NET (C#)**, facilitating an effective learning experience in object-oriented design, software design patterns and best practices.
- **Pentesting Tool (DSO National Laboratories)**: Engineered and implemented automation solutions for Web Penetration Testing and Client-Side Penetration Testing, utilizing **C and Java programming languages**.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C, Kotlin, Swift, R, JavaScript, HTML/CSS, SQL
Frameworks: ASP.NET, Node.js, Next.js, React, Flask, JUnit, Tailwind
Developer Tools: Git, Docker, AWS Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jenkins