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## EDUCATION

**Nanyang Technological University** (NTU)                           Aug 2022 – **May 2025** (Expected)
**School of Electrical and Electronic Engineering**
- **Bachelor of Engineering** (**Information Engineering and Media**)(**IEM**)
- **Honours** (Expected)
- **Relevant Modules**: (1) *From Computational Thinking to Programming* [**C Language**] (2) *Software Engineering*
(3) *Object Oriented Programming* [**Java**] (4) *Introduction to Data Science and Artificial Intelligence* [**Python**]
(5) *Data Structure and Algorithms [**C Language**] (6) Artificial Intelligence & Data Mining (7) Web Application Design*

**Singapore Polytechnic** (SP)                                                          Apr 2017 – Mar 2020
**School of Electrical of Electronic Engineering**
- **Diploma in Computer Engineering (DCPE)**
- **GPA: 3.72**
- **Relevant Modules:** (1) *Client Server Application Development* [**HTML, PHP, SQL**] (2) *Mobile Application
Development* [**Android, Java**] (3) Structured Programming [**C++**] (4) *Data Structures & Algorithms* [**C++**]
(5) *Object Oriented Programming* [**Java**]

## WORKING / INTERNSHIP EXPERIENCE

**ST Engineering, *DevOps Intern***                                              May 2024 – Jul 2024
- Implemented DevOps best practices to enhance collaboration between development and operations teams, streamlining workflows and promoting cross-functional teamwork.
- Optimized existing automation processes using Terraform to improve reliability and performance, conducting assessments and refining workflows to minimize inefficiencies.
- Designed and implemented CI/CD pipelines to automate software delivery, reducing turnaround time and accelerating the release cycle, while ensuring safe and reliable deployments

**Accenture, *Business Analyst***                                                   Mar 2020 - Jun 2020
- Applied RPA techniques to automate software testing protocols, ensuring rigorous compliance verification while streamlining operational workflows for enhanced efficiency and accuracy.
- Leveraged robust data analysis techniques to identify inefficiencies and streamline processes, resulting in significant time and resource savings.

**Accenture, *Test Analyst Intern***                                               Sep 2019 – Feb 2020
- Utilised RPA to automate testing processes of a government client's computer system.
- Drove improvements in system reliability and operational efficiency through the implementation of automation solutions.

## SKILLS

- **Programming Languages:** Java, C, C++, C#, Python, JavaScript, Dart, Bash, Shell, TF, HTML, CSS, PHP, SQL, YML
- **Software Applications**: Visual Studio Code, Android Studio, Xcode, Zoom, Microsoft Office, Adobe Creative Cloud, Unity, Figma, Canva, Eclipse, AutoCAD, Jupyter Notebook, Autodesk Inventor
- **Technical Skills:** Data Structures and Algorithms, Object-Oriented Programming, Machine Learning and Artificial Intelligence, Databases, Automation, Version Control, Front-End, Back-End, DevOps, CI/CD, UI/UX
- **Tools / Frameworks / Libraries**: React, Flutter, Firebase, React.js, Restful APIs, Apache Tomcat, NetBeans, Git, GitHub, GitLab, TensorFlow, Pandas, Numpy, Terraform, Microsoft Azure, Amazon Web Services
- **Operating Systems Environment:** Windows, MacOS, Linux (Ubuntu)
- **Languages:** English, Malay
- **Soft Skills:** Communication, Adaptability, Teamwork, Problem Solving, Analytical Thinking

## ACADEMIC PROJECTS / MODULE PROJECTS

NTU-IEM Module: **Final Year Project**                                          Aug 2024 – **Present**
Module Project: ***Fourier Forge: Development of flutter apps for Fourier series*** (Individual)
- Developed mobile applications for smart devices to solve Fourier series exam questions, incorporating step-by-step solutions, using the Flutter Framework.
- Reviewed existing mobile apps designed for solving exam questions to gain insights into the current landscape of question-solving applications.
- Mastered additional mobile application skills and best practises, including version control systems and documentation.
- Utilised knowledge from IEM design modules such as UI/UX design and colour theory for the design of the app.

NTU-IEM Module: **Web Application Design** Aug 2024 – Nov 2024
Module Project: ***Opus-Cinemas*** (Team of 2)
• Developed a premium movie booking web application using XAMPP, HTML5, CSS3, JavaScript, PHP, and SQL, featuring real-time seat selection and secure payment processing with multiple options.
• Designed comprehensive film browsing functionality with detailed listings, trailers, and personalized recommendation system based on user preferences and viewing history.
• Implemented user account management allowing customers to track booking history, manage reservations, and receive automated email invoices with integrated customer support features.

NTU-IEM Module: **Artificial Intelligence and Data Mining** Oct 2024 – Nov 2024
Module Project: ***Dogs vs Cats Classification*** (Team of 3)
• Developed and implemented multiple deep learning models including VGG16, ResNet, and GoogLeNet to classify images of dogs and cats, achieving highest accuracy of 99.75% with GoogLeNet architecture.
• Implemented **data preprocessing techniques** including image resizing, normalization, and augmentation to improve model performance and training stability.

NTU-IEM Module: **Design and Innovation Project** Aug 2023 – Nov 2023
Module Project: ***JamStream*** (Team of 9)
• Designed and developed a Music Streaming Mobile Application similar to Spotify, with added social functionalities including interactive chatrooms with the goal of increasing user engagement and satisfaction.
• Integrated Front-End JavaScript Programming with the React Framework for the UI/UX of chatting features, as well as Spotify's Developer API.
• Utilised Google's Firebase for the Back-End cloud computing service for the storage of messages and chatlogs.

NTU-IEM Module: **Introduction to Data Science and Artificial Intelligence** Aug 2023 – Nov 2023
Module Project: ***Prediction for Cardiovascular Disease*** (Team of 4)
• Explored and analyzed large datasets from Kaggle.
• Employed Python Programming with 3 Machine Learning Models (i.e., Decision Tree, Random Forest, Logistic Regression) to predict tendency of patients suffering cardiovascular disease.
• Concluded Random Forest was ideal ML Model 70% prediction accuracy which was significantly correlated with critical health parameters (e.g., Smoking, Cholesterol, Gender, Age, Exercising).

NTU-IEM Module: **Introduction to Design & Project** (Team of 2) Jan 2023 – Apr 2023
  • **Project 1 (Escape):**
      o Used C# Programming to design, code and develop a 3D Escape Room game.
      o Implemented assets and animations within the Unity environment.
  • **Project 2 (*OldEgg*):**
      o Created a web-based application for establishing an e-commerce platform specializing in the sale of computer parts using Apache Tomcat and Java Servlet Programming.
      o Utilized back-end programming to manage databases using MySQL.
  • **Project 3 (*Bahoot!*):**
      o Employed Java Programming (Android Studio) to a mobile application resembling Kahoot!
      o Deployed React.js with MySQL and RESTFUL APIs to construct a web-app for Bahoot!

NTU-IEM Module: **Object-Oriented Programming** Jan 2023 – Apr 2023
Module Project: ***Minesweeper Game*** (Team of 2)
• Applied Java Programming to build a Minesweeper Game with unique features (e.g., Difficulties, Sound, Custom Textures, Exporting of Scores) using Object-Oriented Programming.
• Acquired proficiency in translating rules and game mechanics into executable software code.

## CO-CURRICULAR ACTIVITIES

**NTU Escendo 2025,** *Vice President (Branding and Marketing)* Aug 2024 - **Present**
• Led the design of various collaterals, including Instagram posts, posters, videos and merchandise.
• Manage the event's social media channels to effectively promote initiatives and develop reliable communication channels to ensure seamless event coordination.

**NTU Garage@EEE,** *Branding and Marketing Subcommittee Member* Aug 2024 - **Present**
• Contributed to the design of a range of collaterals, including Instagram posts and posters.
• Utilized photography skills to capture unforgettable moments at various Garage@EEE events.

**NTU Enitio 2024,** *Branding and Marketing Subcommittee Member* Jan 2024 - Aug 2024
• Assisted in the dry run of the orientation camp and offered feedback on the camp activities.
• Utilized photography skills to capture memorable moments during the orientation camp.

**NTU Muslim Society (NTUMS),** *Marketing Subcommittee Member* Sep 2023 – Aug 2024
• Served as a photographer for various NTUMS events such as Photography Workshops.
• Assisted in the Branding and collaterals such as social media posts and merchandise of NTUMS