

PROFESSIONAL SUMMARY

Final-year Information Engineering and Media student with practical experience in DevOps, software development, and RPA implementation. Technical background includes CI/CD pipeline design, infrastructure automation with Terraform, and full-stack development across mobile and web platforms. Demonstrated ability to optimize workflows, implement automated solutions, and collaborate across development and operations teams. Seeking a Software Engineering or DevOps role to leverage programming expertise and automation skills in delivering efficient, scalable technology solutions.

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)
- **Specialisation:** Software Engineering and Artificial Intelligence
- **Relevant Coursework:** *Software Engineering, Object Oriented Programming, Data Structure & Algorithms, Artificial Intelligence & Data Mining, Machine Learning Application Design, Web Application Design, Database Design*

Singapore Polytechnic (SP)

Apr 2017 – Mar 2020

School of Electrical of Electronic Engineering

- **Diploma in Computer Engineering (DCPE)**
- **GPA: 3.72**
- **Specialisation:** Computer Applications
- **Relevant Coursework:** *Client Server Application Development, Mobile Application Development, Structured Programming, Data Structures & Algorithms, Object Oriented Programming*

PROFESSIONAL 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

- Implemented RPA (BluePrism) automation for test environments, reducing manual testing time by 40% while ensuring 100% compliance with regulatory requirements.
- Engineered custom automation scripts to execute parallel testing processes across multiple system environments

Accenture | Test Analyst Intern

Sep 2019 – Feb 2020

- Architected and deployed RPA solutions using BluePrism for a government client, automating repetitive testing processes across legacy systems
- Designed and executed comprehensive test cases for system integration, regression testing, and performance validation

TECHNICAL SKILLS

Programming & Scripting

- Languages: Java, Python, JavaScript, C/C++, C#, Dart, SQL, HTML/CSS, PHP, Bash/Shell, YAML, Terraform
- Paradigms: Object-Oriented Programming, Functional Programming, Data Structures & Algorithms

DevOps & Cloud

- CI/CD: GitHub Actions, GitLab CI
- Infrastructure as Code: Terraform
- Cloud Platforms: Microsoft Azure, AWS, Terraform Cloud, Digital Ocean

Frameworks & Libraries

- Frontend: React.js, React Native, Flutter
- Backend: RESTful APIs, Apache Tomcat, Netbeans
- Data Science: TensorFlow, Pandas, NumPy
- Database: MySQL, MySQLLite, Firebase

Development Tools

- IDEs: Visual Studio Code, Android Studio, Xcode, Eclipse, JupyterLab
- Design: Figma, Adobe Creative Cloud, Canva
- Modelling: AutoCAD, Autodesk Inventor

Additional Skills

- Operating Systems: Windows, macOS, Linux (Ubuntu)
- Languages: English (Professional), Malay (Professional)
- Soft Skills: Technical Communication, Cross-functional Collaboration, Problem Solving, Analytical Thinking

KEY PROJECTS

Fourier Forge – Educational Mobile Application

Aug 2024 – Present

- 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.

Opus-Cinemas – E-Commerce Platform

Aug 2024 – Nov 2024

- 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.

JamStream – Music Technology Platform

Aug 2023 – Nov 2023

- Designed and developed a Music Streaming Mobile Application like 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.

LEADERSHIP & COMMUNICATION EXPERIENCE

NTU Escendo 2025 | Vice President (Branding and Marketing)

Aug 2024 – Apr 2025

- 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.
- Contributed to brand strategy development, ensuring alignment with goals and target audience needs,

NTU Enitio 2024 | Branding and Marketing Subcommittee Member

Jan 2024 - Aug 2024

- Provided strategic feedback on event activities and promotional campaigns to improve participant engagement
- Documented key moments through photography, creating visual assets for marketing campaigns and future planning

NTU Muslim Society (NTUMS) | Marketing Subcommittee Member

Sep 2023 – Aug 2024

- Developed targeted communication strategies for diverse community events
- Contributed to brand identity development, ensuring consistent messaging across multiple platforms