# Curriculum Vitae



## Personal Particulars

Name : PHYU THWE HTET HTET KHAING
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## Education Background

2015 – 2020 : Nanyang Technological University (Singapore)
Bachelor of Engineering (Computer Science) Honours (Merit) with
Artificial Intelligence Specialisation
2011 – 2014 : Republic Polytechnic (Singapore)
Diploma in Information Technology
2022 – 2023 : Copenhagen University, Master Program in Bioinformatics
(Computer Science and machine learning) (In progress)

## Academic Awards

2015 – 2020 : Bachelor of Engineering (Computer Science) Honours (Merit)
2011 – 2014 : Diploma with Merit
2013 – 2014 : Director Roll of Honour (Diploma in Information Technology)
2012 – 2013 : Roll of Honour (Diploma in Information Technology)
2011 – 2012 : Merit Award (Diploma in Information Technology)

## Past Work Experiences

**Dec 2019 – Sep 2022: Senior Mobile Software Engineer at Rakuten Asia Singapore**
Contributed to designing and developing mobile applications (both Android and IOS) for
Rakuten Web Search Application. Ensured application stability and performance in each

release. Worked on user experience improvements and UI/UX upgrades for application. Worked in chromium open-source project and managing upgrades from each chromium releases.

Accomplishments

- ➢ Working on open-source Chromium Project (search engine for android and IOS apps) containing 25 million lines of code. Chromium is one of the largest, most complex open source projects in the world
- ➢ Working on library integrations in chromium source codes
- ➢ Working on UI/UX upgrades to the chromium source codes and adding functionalities to search engine app
- ➢ SDK development for android and IOS apps
- ➢ Unit testing and performance monitoring for the android and IOS apps.
- ➢ Skills used: JAVA, C++, Python, Kotlin, Objective C, Swift, android development, IOS development, application release, monitoring apps performance, UI/UX

**Dec 2018 – Dec 2019: Software Developer at Accenture**

Contributed to designing and developing APIs. Ensured API applications security and optimized performance. Developed and implemented microservice architecture for the revamp of the old API service of highly sensitive user data.

Accomplishments

- ➢ Developed APIs using Nodejs backend framework
- ➢ Unit test APIs to cover different cases and aspects of the application behaviour
- ➢ Integrated testing with different micro services and improved their performance by monitoring performance data
- ➢ Skills used: Nodejs backend framework, MySQL, Linux and Windows server deployment, Git command tools, unit testing, Performance testing, API development, microservice development architecture

**Oct 2017 – Dec 2018: Software Engineer at Tetsuyu Healthcare Holdings Pte Ltd**

Contribute in the medical software development and worked on different programming languages, namely VB.Net, Android, Objective C and Python as required by different projects. Manage customer relationship, user support and involve in requirement gathering and design process. Support multinational customers such as Japan. Involve in the research and development of machine learning and Artificial Intelligent project for patients wound management.

Accomplishments

- Developed APIs and support user interface changes for .Net Platform application.
- Developed android application for CARES4WOUNDS project.
- Developed API communications in android application for CARES4CAREGIVERS project.
- Developed IOS application for CARES4WOUNDS product.
- Support trial for CARES4WOUNDS product in community hospital including requirement gatherings, deployment and user support
- Support in research for artificial intelligence project relating medical imaging.
- Skills used: Android Development Stacks, Android Library, Connectivity using Bluetooth and WIFI, Android UI designs, JAVA, Gits, Android Studio, Unit Testing, Software Architecture and Designing, XCode, Objective C, SQLite, VB.Net, MSSQL, Machine Learning.

**Oct 2016 – March 2017: Software Engineer (Android) at Merry Singapore Pte Ltd.**

Developed an android mobile application related to sport and exercise tracking device and its use cases. Researched on android technology in terms of creative UI, application architecture and application security.
Accomplishments

- Developed an android application for sport and exercise tracking, recording and report.
- Researched on Bluetooth 5 connectivity
- Developed an android mobile application prototype using BLE connection
- Documentation of Software Architecture
- Research on android security issues
- Research on UI creative practices
- Skills used: Android Development Stacks, Android Library, Connectivity using Bluetooth and WIFI, Android UI designs, JAVA, Gits, Android Studio, Unit Testing, Automated testing, Software Architecture and Designing, Bluetooth Low Energy, Bluetooth Classic Connection.

**March 2015 – July 2016: Front-end Web and Mobile Developer at HP Inc.**

Developed promotional campaigns projects, new product launch projects, and direct email marketing projects. Ensured that the websites and microsites are mobile friendly and optimized. Ensured the responsiveness of content on both desktop and different mobile

screen sizes. Provided technical support as a consultant for other web and mobile technology concerns.

Accomplishments:

- ➢ Developed mobile optimized web based different seasonal campaign landing pages
- ➢ Google Ad Double Click studio certified for AdWords campaigns creation.
- ➢ OPTIMIZELY certified for web analytics
- ➢ Managed google tag manager and implementation for different tags in the different online stores
- ➢ Well-versed in responsive web design and worked for UI optimization to achieve better mobile experience in both android and IOS.
- ➢ Skills used – Google Web Developer, Google Analytics and Tag Manager, Double click Studio, HTML, JavaScript, Angular JS, CSS, Jquery, Bootstrap, Responsive EDM (Email Direct Marketing) development, OPTIMIZELY analytics, Photoshop CS6, UI/UX for mobile interface, Node.js

## May 2014- March 2015: Web/Mobile Application Developer at Singapore Medical Group (SMG)

Designed and developed the in-house applications for the company's various departments, medical associates, and third parties. Ensure the stability and reliability of the applications, application maintenance, design and development based on user feedback. Performed Usability Test and ensured that the applications are met with the business requirements.

Accomplishments:

- ➢ Developed the business application called SAN-SMG Associates Network System under the supervision of the IT manager. The application includes stage by stage process of managing medical appointments, invoices, payments orders and concurrent reporting of the medical appointments and invoices monthly and weekly.
- ➢ Provided the user support as required for the clinical management software and troubleshooting as required. Ensure that system backup are done on day to day basis. Provide user support for the clinics' network and troubleshoot the system as required.
- ➢ Developed a mobile application called "Clinic Display" which takes the handwritten memo notes, patient details and a snapshot of the patient photo using an android handheld device and displays them on android television.
- ➢ Programming Skillsets and experience: PHP, JavaScript, MySQL, Ajax, JQuery, HTML, HTML5, CSS, Java, Android Development, Full Stack Web Development

> ➢ Soft-skills: user support, requirement gathering, IT consultation, application development life cycle, UAT and provided user training for the application.

**Feb 2014- April 2014: Temporary Mobile Application Developer at Destevia Singapore Pte Ltd**

Contributed to the mobile application development projects. Researched, designed and developed for the functionalities of the application designed to suit the needs of the real estate agencies. Developed Contact Management modules, Form Management modules, Transaction Management modules, and other functionalities based on project's requirements.

Accomplishment:

> ➢ Developed contact management module, transactions module, activities management module and notifications management module for the Android and IOS applications.
> ➢ Skillsets and experience: JQuery-mobile, Cordova (phone gap), JavaScript, MySQL, Ajax, GCM, HTML, HTML5,CSS, Jquery, Restful API, PHP

**Oct 2013 –Feb 2014: Web Developer Intern at Destevia Singapore Pte Ltd**

Contributed to the software application development projects. Researched and designed for the projects designed to suit the needs of the real estate agencies. Developing forms management system and business reports and visualization of the data in the application.

Accomplishment:

> ➢ Development of the business reports and data visualizations, deriving the organisation chart and frontend CSS in the application. PHP, Jquery, JavaScript, MySQL, HTML5, CSS3.

## Skills & Knowledge

Software Programming
- Python
- R
- Machine Learning
- Objective C
- Kotlin
- Swift
- PHP
- JAVA

- C/ C++
- Nodejs
- MySQL
- Data structure and algorithms
- Google Cloud Messaging
- Android Development
- IOS App Development
- Gits

## Academic Results

**Nanyang Technological University, Singapore (B.Eng. in Computer Science) Honours (Merit)**
**Cumulative GPA: 3.78**

| MODULE NAME | MODULE CODE | GRADE |
| --- | --- | --- |
| INTRODUCTION TO COMPUTATIONAL THINKING | CZ1003 | B |
| DIGITAL LOGIC | CZ1005 | B |
| ENGINEERING MATHEMATICS I | CZ1011 | B- |
| INTRO TO SUSTAINABILITY- MULTIDISCIP APPROACHES & SOLUTION | GC0001 | PASS |
| COMPUTER ORGANISATION AND ARCHITECTURE | CZ1006 | B |
| DATA STRUCTURES | CZ1007 | C |
| ENGINEERING MATHEMATICS II | CZ1012 | B |
| ENGINEERING COMMUNICATION I | HW0188 | A- |
| DISCRETE MATHEMATICS | MH1812 | B+ |
| ENGINEERS & SOCIETY | CZ0001 | A+ |
| ALGORITHMS | CZ2001 | B+ |
| OBJECT ORIENTED DESIGN & PROGRAMMING | CZ2002 | B+ |
| HUMAN COMPUTER INTERACTION | CZ2004 | B |
| SOFTWARE ENGINEERING | CZ2006 | A- |
| COMPUTER GRAPHICS AND VISUALISATION | CZ2003 | C+ |
| SOFTWARE SYSTEMS ANALYSIS AND DESIGN | CZ3003 | B |
| NET CENTRIC COMPUTING | CZ3006 | A- |
| ARTIFICIAL INTELLIGENCE | CZ3005 | B+ |
| MACHINE LEARNING | CZ4041 | D+ |

| Module Name | Module Code | Grade |
|---|---|---|
| NEURAL NETWORK & DEEP LEARNING | CZ4042 | B |
| NATURAL LANGUAGE PROCESSING | CZ4045 | A- |
| ADVANCED COMPUTER ARCHITECTURE | CZ3001 | B |
| ENTERPRISE & INNOVATION | ET0001 | PASS |
| INTELLIGENT AGENTS | CZ4045 | A |
| COMPILER TECHNIQUES | CZ3007 | B |
| ENGINEERING COMMUNICATION II | HW0288 | A- |
| FINAL YEAR PROJECT | CZ4079 | B+ |
| OPERATING SYSTEMS | CZ2005 | A |
| INTRODUCTION TO DATABASES | CZ2007 | B+ |
| ADVANCED SOFTWARE ENGINEERING | CZ3002 | B+ |
| ETHICS AND MORAL REASONING | HY0001 | PASS |

**Republic Polytechnic (Diploma in Information Technology)**
**Cumulative GPA: 3.83**

| Module Name | Module Code | Grade |
|---|---|---|
| Science | A101 | A |
| Organisational Behaviour | B102 | A |
| Introduction to Programming (Python) | C105 | A |
| New Media Communications | C111 | B+ |
| Cognitive Processes and Problem Solving | G101 | B |
| Mathematics | A113 | A |
| Database Systems | C207 | A |
| Object-Oriented Programming | C208 | A |
| Data Communication and Networking | C225 | A |
| Introduction to Communication Practice | G103 | B |
| System Analysis and Design | C202 | DIST |
| Web Application Development | C203 | A |
| Operating System Concepts | C226 | DIST |
| Internetworking | C326 | B+ |
| Network infra-structure | C328 | A |
| Character and Citizenship Education | G901 | Pass |
| Marketing | B216 | A |
| IT Security and Management | C235 | A |
| Interactive Web Design and Development | C293 | B+ |
| Network and Data Center Management | C322 | A |
| Network Security | C335 | A |

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|---|---|---|
| Special Project ( CCNA training for Net Rider Competition) | C200 | A |
| System Scripting | C307 | A |
| Data Structures and Algorithms | C306 | A |
| Project | G301 | B+ |
| Industrial Immersion Programme | | Pass* |

Pass*: Pass with Commendation
DIST: Distinction
IP: In Progress

## Language Proficiency

English, Burmese