## **Curriculum Vitae**

## **Terence Lim**

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## [Education]

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Bachelor of Science, Information Systems Singapore Management University	2017
Second Major: Marketing	
Distinction in Software Engineering Module	
Distinction in Technology and World Change Module	
Distinction in Creative Thinking Module	
Distinction in Internet of Things Module	
Exchange Program, University of St Gallen, Switzerland	2016
A-Level Certification, Catholic Junior College	2010
O-Level Certification, St Joseph's Institution	2008
Diploma in Entrepreneurship Development, ERC Institute	2008

## [Work Experience]

## **Refract Technologies**

Software Engineer R&D (Jan 2022 - Aug 2024)

#### Responsibilities

- Research and Development
- Worked in a cross functional, multidisciplinary R&D team
- Collaborated with game developers, marketing, and business development
- Support for events and demonstrations
- Developed proprietary systems
- Bug fixing and problem solving

#### **Projects**

#### - AXIS

Motion capture hardware devices for gaming and sports IMU based wearable devices that communicate wirelessly to a dongle, providing gyroscope, accelerometer and magnetometer readings that are computed into accurate rotational data

#### - Steam VR Driver

Developed Steam VR driver for AXIS to interface with Steam VR games Ensuring compatibility with common VR games

#### - Proprietary Sensor Calibration Solution

Collaborated with firmware and hardware specialists to develop a single step calibration method for quick and accurate on-body sensor calibration

#### - Proprietary Virtual Skeletal System

Developed an in-house virtual skeletal system to enable advanced body movement estimation and interpolation

#### - Visualization and Debugging Tools

Collaborated with UI specialist to develop 3D visualization tools for end user control center and internal R&D and debugging

## - Tools and Support

Worked closely with game dev team and SDK developer to build tools and support development of games, demo prototypes, and proof-of-concept projects utilizing AXIS hardware

## **Kioxia Singapore (Formerly Toshiba Memory Singapore)**

Analyst Programmer (Apr 2018 - Dec 2021)

#### Responsibilities

- In-house application development (internal business applications)
- Research and Development
- Redesign legacy systems
- Database Management
- Environment: Windows Server / SQL & Oracle Database / Tortoise SVN

#### **Projects**

## - Business Intelligence Visualisation Tools

Built graphical BI tools for sales and marketing teams on company intranet

## - Leave Application System

Built Leave Application system from the ground up Liaise with HR team to gather requirements

#### - Time Management System

Built employee time in/out tracking system with overtime application Automated data collection from 3rd party card access security system Integrated with leave application system

## - Automated Invoice Printing Solution

Built an automated solution to generate invoice PDFs and send to printing queue Utilising SSRS Report Builder, batch scripts and VBScript

#### - Door Access User Interface

Created a simple browser application HTML/CSS/Javascript Interface with 3rd party phone system API

# Invoice Optical Character Recognition (OCR) Processing (Currently in progress)

Research open source OCR solutions to process client invoices for database storage

Utilizing Tesseract for Command Line, XpdfReader and Nlohman JSON C++Lib

#### **KNOREX**

Internship (Summer 2016)

## Responsibilities

- Web development
- Search Engine Optimisation (SEO)

## **Projects**

- Product Website Redesign

Utilising HTML/CSS templates Research modern web design UI/UX best practices Research and implement SEO

## **Omega Marketing Group**

Internship (Summer 2013)

## Responsibilities

- WordPress Web Development
- Write blog articles/ business articles
- Ad hoc duties

## [Technical Skills]

#### **Programming**

C++, C#, ASP.NET, Java, Javascript, HTML/CSS, SQL

#### **Development Tools**

 Visual Studio, Netbeans, SQL Server Management Studio, SQL Server Reporting Services, Toad for Oracle, Unreal, Unity

#### **Source Control**

- GitHub, BitBucket, Tortoise SVN

#### **Others**

- Photoshop, Audacity, Abelton

## [Personal Accomplishments]

#### Developed a Sine Wave Audio Synthesizer in Java

- Generated frequency table based on 12-Tone Equal Temperament
- Wrote a Sine wave function that outputs to the sound buffer at 44100Hz rate

## **Developed a Browser Based Interactive Keyboard Synthesizer**

- Utilized Javascript Web Audio API and HTML/CSS
- https://terence9213.github.io/synth.html

#### Developed Eternity Quest, a Browser Based Retro Style Vertical Shooter

- Utilized Javascript Canvas animation tool
- 100% Javascript game engine (no 3rd party library or game engine)
- https://terence9213.github.io/eternityguest.html

#### Developed an interactive fireworks simulation

- 100% Javascript animation engine with time dilation function
- https://terence9213.github.io/fireworks.html

## [Co-Curricular Activities]

#### **SMU Climb Team Marketing Manager 2015**

 Coordinated publicity campaign in conjunction with freshman induction period to boost publicity and increase membership of the club

#### **SMU Gravical Marketing Director 2015**

Organised one of the largest rock climbing competitions in Singapore

#### St Joseph's Institution Robotics Club Chairman 2008

Organised orientation and training for new club members