

# Er An Khoo

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Johor, Malaysia

## Profile

I am an open-minded individual with a proven track record in designing websites and creating databases. I have strong technical skills as well as excellent interpersonal skills. I am eager to be challenged in order to grow and improve my communication and professional IT skills gained through previous experiences in the IT sector.

## Education

University at Buffalo | Buffalo NY | BS in Computer Science | CGPA 3.175/4.00

Nanyang Polytechnic | Singapore | Diploma in Business Informatics | CGPA 3.46/4.00

Nanyang Polytechnic | Singapore | Diploma-Plus in Business Informatics

Yusof Ishak Secondary School | Singapore | GCE O Level

## Experience

### IT Specialist, University at Buffalo Department of Behavioral Medicine

May 2015 – August 2016 | Buffalo, New York

I work as a IT specialist in Department of Behavioral Medicine and later I was promoted to be the CTO of the department.

- Strategic Consulting, including studies plan & database design
- Domain management for the lab
- Manage and monitor interns coming from the university
- Comprehensive database management and migration from SQL to MySQL

### IT Specialist, Wooworld Pte Ltd

September 2012 - June 2013 | Singapore

I work as a IT specialist in Wooworld Pte Ltd and later I was promoted to be the Chief Technical Officer.

- Brand development, web site traffic growth, web site UI and advertising revenue. Developed brand strategy and statistics systems
- Strategic Consulting, including business plan & sales strategy development.
- Advising new businesses on formation of corporations and business structures, drafting privacy policies and structuring
- commercial transactions.
- Comprehensive database management and migration from SQL to MySQL

## System Analyst Internship, PSA International Pte Ltd

November 2011 - February 2012 | Singapore

I work as a intern system analyst in PSA International Pte Ltd. My duty include

- Create an analyst tool using VBA in Microsoft Excel
- Create Microsoft Powerpoint based on the data in Microsoft Excel using VBA which include creating dynamic tree on Microsoft Powerpoint Slide
- Create a waterfall chart in Excel to display the analyzed result using VBA

### Project

OStop Visual Basic.NET | MSSQL

Design and Implement a website about Online Space Rental Services using Visual Basic.NET. Developed using Visual Studio 2008, SQL Server, Telerik Web UI Control & Components and AJAX Control Toolkit

Registration Program Visual Basic | MSSQL

Design and Implement a window forms application about Registration for CCA (Nanyang Polytechnic Symphony Orchestra) using Visual Basic. Developed using Visual Studio 2008 and SQL Server

Hotel Booking Service Java | Microsoft Access **Awarded Distinction Project from Nanyang Polytechnic**

Ever want to book a hotel room like buying a movie ticket? I design and Implement a JAVA application about Hotel Booking System using Java. Developed using Eclipse and Microsoft Access.

SocialEducators C#.NET | MSSQL **Awarded Distinction Project from Nanyang Polytechnic**

Design and Implement a website about Online Interactive Quiz using Google Map and Visual Basic.NET. Developed using Visual Studio 2010, Window Azure SQL Server, Telerik Web UI Control & Components and AJAX Control Toolkit. Deploy using Window Azure Cloud Service and Window Azure SQL server

Calculator Alarm Clock C# **Awarded Distinction Project from Nanyang Polytechnic**

Design and Implement a mobile application about Calculator Alarm Clock using C#. Developed using Visual Studio 2010, Microsoft Expression Blend 4 and Telerik Mobile UI Control & Components

Skycool AC Booking System C#.NET | MSSQL **Awarded Distinction Project from Nanyang Polytechnic**

Design and Implement a website about Online Air-Conditioner Booking Services using Web Service and Visual Basic.NET. Developed using Visual Studio 2008, SQL Server, Telerik Web UI Control & Components and AJAX Control Toolkit

### NASA Web WorldWind Europa Challenge wGlobe

JSP | AWS Amazon Web Services | Bootstrap | MYSQL

Design and Implement a website about reading data from NOAA Server and NetCDF using JSP. Process data using JAVA and implement with NASA Webworldwind Javascript API. Developed using Eclipse, Java, Bootstrap

Link: <http://www.cse.buffalo.edu/~chandola/research/webglobe/webglobe.html>

## M&T BuffaloConnect Intramural Javascript | Bootstrap | PHP

Design and Implement a website about online information for Buffalo Downtown. It is an intramural project between M&T and University at Buffalo. Developed using IntelliJIDEA, integration from NFTA (local trainservices), Google Map API and Yelp API.

Link: <http://buffaloconnect.com>

## SocialNet JSP | JSF | Java | MYSQL **Awarded Distinction Project from Nanyang Polytechnic**

Design and Implement a clone of Facebook application. Application include adding friends, accepting friends, posting on user wall as well as timeline on their newsfeed. Developed using IBM Rational Developer Sphere v9.0 with integration of MYSQL

## UB CareerFair App Android | Java

Design and Implement an android app that mean to replace paper and pen during the registration process in CareerFair. The project was collaborated with M&T Bank and University at Buffalo. Developed using Android Studio with integration of SQLite DB.

## Google Map Industrial Mapping Google Script | Fusion Table

Design and Implement a google map services that map the data from Fusion Table to a google map. Developed using google script editor.

## Shared Instrumentation Laboratory Tools PHP | MySQL

Design and Implement a check-in system for equipment in the lab, where user will have to swipe their student ID before they can use the equipment in the lab. Developed using Notepad++ with integration of MySQL and card reader.

## **Volunteer**

### Google Developers Group Buffalo Organizers | IT Specialist | Designer | Event Coordinators

Organizers of the GDG Buffalo DevFest 2015. My role in this organizations does not only include organizing the event, it also include event planning, website development, and sponsors hunting. We organize the first WNYDevFest in September 19th-20th 2015. A total of 200 developers register for the event and we have 3 group of winners for the hackathon.

### University at Buffalo - Behavioral Medicine IT Specialist | May 2015 – January 2016

- Maintain and develop web application for the department.
- Comprehensive database management and migration from MSSQL to MySQL.
- Strategic Consulting, including server management and server migration

## UB Hacking 2015

Helper | November 2015

Help out with set up in UB Hacking

## Research Contributor

Help out with the data entry during 2015 summer.

Link: <http://computingthehumanexperience.com/team/research-contributors/>

## Competition

SplashAward Singapore Computer Society | Singapore - 2011

ThinkQuest Oracle | Singapore - 2012

ImagineCup Microsoft Windows Azure Category | Singapore - 2012

UB Hacking Hackathon | University at Buffalo- 2015

NASA Europa Challenge | University at Buffalo - Summer 2015

## Award

Presidential Awards | The National Society of Leadership and Success

AΣΦ (Alpha Sigma Phi)

Director List 2009/10 (Dean List)

Nanyang Polytechnic School of Information Technology (SIT)

## Certification

IBM Certified Database Associate DB2 9 Fundamentals

IBM Certified Associate Developer Rational Application Developer V8

## Research Experience

Progresso | August 2015 – August 2016 | University at Buffalo | Prof. Geoffrey Challen

Develop and Implement on using interface events to detect bugs and user-facing latency on Android Platform. Developed using Android Studio.

WebWorldWind | May 2015 – August 2016 | University at Buffalo | Prof. Varun Chandola

Develop and Implement a website that allow user to interactive with the weather of the globe.

Developed using Eclipse and JavaScript that developed by NASA.

Link: <http://www.cse.buffalo.edu/~chandola/research/webglobe/webglobe.html>

**Personal Website:** <http://erankhoo.com>