Cas Chan

Tech enthusiast
Web/mobile developer

>_ Chan Chen Bin

⧗ 27 years old

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 nitemarket
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Working Experience

Team Lead - Web Developer

Izyoo Platform Sdn Bhd
August 2015 - Present   1 years 7 months

1. Provide guidance and encouragement to team members, including communicating team goals and identifying areas for skills training.
2. Answer and solve any queries and problems from the team members.
3. Oversee the coding's quality, re-usability and ensure that it is easy to understand.
4. Communicate deadlines to the team and accomplish goals within the given timeline.
5. Avoid micro management and always be open to new ideas and opinions from others - my team members are encouraged to apply their own innovative ideas that bring benefits to the projects.

Programmer

Izyoo Platform Sdn Bhd
January 2014 - August 2015   1 years 8 months

1. Gain knowledge in developing backend system from scratch using object-oriented PHP and applying in house framework.
2. A solid understanding on designing the system based on security aspect and the system is able to handle unexpected use case.
3. Responsible for frontend javascript code and collaborate with web designer to match visual design intent.
4. Efficiently structure relational databases for ease of maintaining, expanding and scaling site.
5. Create and maintain software documentation.

Intern

Industrial Technology Research Institute, Taiwan (ITRI)

May 2011 - October 2011   6 months

1. Felt comfortable working overseas where working culture is different from home country.
2. Building 3D drawing of scroll air compressor and apply mechanical simulation.
3. Experience in patent search.
4. Experience in reverse engineering and benchmarking on actual product to look for design breakthrough.

Part-time Mechanical Engineer

Vone Consult Sdn Bhd

January 2008 - December 2012   Part time

1. Gain knowledge about building mechanical services like Air Conditioning and Mechanical Ventilation (ACMV), fire protection, cool water supply, lift, sanitary and more.
2. Experience in designing the capacity of AC unit needed for different room area and its duct size to transport cooling air to each diffusers.
3. Experience in calculating the pump pressure needed to transport water to the storage tank by considering the force deduction due to pipe friction.
4. Design mechanical services according to the rule and regulation provided by the government and authorities.

Skill

Programming languages

PHP

The first programming language that I learned to start my very own first IT project. Personally built a PHP framework during my free time and it is now being hosted on GitHub.

CasPHP | Company Projects

Javascript

My all-time favourite programming language due to its simplicity. Personally built a Javascript plugin which turns multiple HTML forms into a messenger, hosted on Github.

FormMessenger.js | Company Projects

Android

Started exploring Android in mid 2016 when I could not find a good developer for mobile development. Skill proficiency - intermediate level.

`YouPlace` `OnBump`

Node.js

It is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Developing in Node.js is quick and easy by applying tons of libraries.

`Company Projects`

Frontend Technologies

Progressive Web App

Completed Google codelab in a day and learnt about service workers on how to make web offline accessible. Manifest.json is included to allow shortcut creation and is placed on mobile home screen.

React.js

It is an amazing javascript library for building user interface - efficiently update and render just the right components when your data changes. I have completed the full tutorial but have yet to apply in any projects.

HTML5 / CreateJS

Applied HTML5 canvas for a game interface of Poker Card Game system. CreateJs is a suite of modular libraries and tools that smoothen the development of canvas elements, animations, sounds & preloaded assets.

`Company Projects`

JQuery

The well-known javascript library that is small, fast and very well documented. I often use it in my company projects.

`Company Projects`

Databases

Mysql / PhpMyAdmin

Mysql always comes into place with PHP development. This is the database system that I have been using most of the time.

`YouPlace` `OnBump` `Company Projects`

MongoDB

Like other NoSQL database, it supports dynamic schema design, allowing documents in the collection to have different fields and structures.

Development Tools

Git

A version control software that I love over SVN due to its efficiency of distributed structure and offline access. I currently host my personal projects in Bitbucket.org.

FormMessenger.js   CasPHP   YouPlace   OnBump

SVN Tortoise

It is centralized version control software which is very useful for developments by a large team.

Company Projects

Gulpjs

A toolkit that is used to automate tasks in development workflow. I find it very useful for plugin development.

FormMessenger.js

Deployment Platform

Firebase

A mobile and web platform with tools and infrastructure that saves developement time on building the Most Viable Product (MVP). At the moment, I have been using firebase authentication, realtime database and storage.

YouPlace

Amazon Web Services

A secured cloud services platform that offers compute power, database storage and content delivery. Currently deploying my projects in PHP environment on AWS beanstalk which consists of EC2, S3 etc. Would strongly recommend AWS to a starter project because its 1 year free tier package which is suitable for projects that have low traffic.

YouPlace

Google App Engine

GAE is a platform as a service (PaaS) which allows developers to deploy their products quickly. It has a free usage limit that resets daily. Therefore, it will be a great option for projects that run in low traffic for a longer duration.

OnBump

Drawing software

AutoCAD

Back when I was in the engineering field, AutoCAD was my main software for drafting mechanical services such as air-conditioning, fire protection and sanitary services on building layout.

Solidworks

Solidworks is a very handy tool to build 3D models of objects. For university assignments and projects, we often use this software to build the product models virtually before sending it for actual fabrication.

Awards and Accomplishment

Top 3 Finalist for AngelHack Kuala Lumpur 2016 - O2O Commerce Challenge category

AngelHack Kuala Lumpur, 2016

My team built a web application known as "DropOn" which is intended to serves as a "Groupon" for mobile traders. Mobile traders like food trucks or street vendor can easily drop a pin on the map to indicate where their business is operating within a particular timeframe. App users who are nearby or any subscribers of that place can easily spot them, make purchases and pay via the online payment gateway. The customers can also claim their items on the spot without any hassle from the business owner.

Winner of 4th Prize for Cyberjaya City Hacks in National Big App Challenge 2.0

MDeC, 2015

My team of 5 has built a mobile application, which is known as CyberRide, aims to (1) solve the problems that bus passengers face when they travel to the destination and to (2) greatly improve bus riding experience.

(1) By training machine learning model on the combination of bus route relevant datasets that is provided by the organizer and open source datasets such as traffic and weather data, the mobile app can predict the approximate time that a passenger needs to depart from his current place in order to catch the desired bus and arrive at destination at the right time.

(2) Through the feature of planning ride earlier at part (1), the application can easily identify the passengers on the bus in the future which brings in a great opportunity to suggest a passenger to meet another passenger who has similar interest and topic when he/she is planning future ride. Passengers can expand his/her network and friendship on the bus. Thus, CyberRide serves as "Linkedin in the bus".

Finalist for Hilti 2015 IT Innovation Competition - Big Data Analytics

Hilti Corporation, 2015

My team built a e-commerce web platform which is equipped with machine learning model that is trained on pre-processed data that is provided by Hilti Corporation such as page visit history, purchase records, user action records, Hilti products list etc. The target of applying predictive analysis into the application is to enhance purchase experience of the customer and improve sales opportunity of the company.

Winner of 2nd Prize for MDeC, Tune Talk, Effective Measure Mobile Data Visualization 24-Hour Hackathon

MDeC, Tune Talk, 2014

Addition to 10+ GB anonymous processed mobile data that is provided by the organizer, we have included an open source third party data and built a web application that can be used to provide statistical analysis, data visualization and useful insights through highly interactive user interface.

Winner of 3rd Prize for National Big App Challenge 1.0

MDeC, 2014

My team built a web application which is equipped with a machine learning model that can be used to predict the number of people in a place within a given period. Our application can simulate a disaster occurrence at a certain point of time and visualize the movement of human beings from point of occur to different evacuation points.

Consolation prize for UTAR National Mathematics Competition 2011 Category A

Mathematics Society, 2011

Category A - Total of 20 multiple choice mathematical questions of all aspects. - One hour duration
Category B - 200 simple arithmetics - 10 minutes duration

Projects

Company Projects (Izyoo)

Poker Game System

It was a very challenging task because I have never built a multiplayer game before. This is the starting point of how I began to explore Node.js, by combining a third party module - socket.io, to work out a complicated logic that runs the Texas poker game. As requested by client, I have also built an in-game bot

that acts like a "human player" as in they will automatically stand, sit, buy in, call, raise or all in during the game. For the frontend, instead of applying Flash Player, I have developed the game interface and player chatrooms with HTML5 canvas.

Node.js MySQL HTML5

E-commerce System

This system consists of public shopping site as well as an admin management dashboard. Users are able to view the different products, add to cart, checkout and make payment without account registration. Administrators are assigned with different privileges on tasks that they are responsible for - user management, product management, purchase and shipping and more.

PHP MySQL JQuery

Multi-level Marketing (MLM) System

Multi-level structural hierarchy is made up of many members where each member has their registered downlines and the level is repeated downwards for an unlimited time. In some cases, the positioning of downline affects the bonus calculations or meeting different criteria to achieve maximum benefits for the upline which makes things complicated.

PHP MySQL

Face Recognition System

I formed a team with three interns to work on this mini project for a short period of time. We applied OpenCV to do face recognition in our existing system such as account login, photo album search and friendship mapping. We however failed in increasing the accuracy of our face recognition algorithm due to our limited knowledge of the application of machine learning.

OpenCV

Personal Projects

YouPlace In progress
Explore places together.

A mobile app can save places that you love or would love to visit, then invite your friends to explore together. It can be your pocket of place collections that will remind you of a place when you are nearby. You will no longer have trouble in choosing where to meet when you find common places between you and your friends.

Android Firebase Git

OnBump Terminated
A smart scheduler that makes meet up smooth so everyone arrives at the same time without wasting each other's precious time. The initial idea is, by analyzing real-time road traffic on the expected arrival time and comparing the estimated arrival time of other attendees, the system will automatically fine tune the departure time (alarm) to alert user in a way that minimizes the difference between arrival times of every attendees.

PHP MySQL Git

Open Source Projects

CasPHP

https://nitemarket.github.io/CasPHP/ (https://nitemarket.github.io/CasPHP/)
The full name is Clear And Straight-forward PHP Framework. It helps developers quickly write simple and powerful web application & APIs. Emphasizing in cleanliness and simplicity minimizes the duration of understanding framework and allows users start the first line of codes quickly.

PHP MySQL Git

FormMessenger.js

https://github.com/nitemarket/FormMessenger.js (https://github.com/nitemarket/FormMessenger.js)
This is a javascript plugin that transforms HTML forms into a conversational chat room. It does not require JQuery dependency. I have built this plugin to greatly improve the experience of account registration, login and recovery. With interchangeable forms, if users fail to login, they can easily switch to register new account or recover password in the same chat room without being redirected to another page.

Javascript Gulp Git

Education

Universiti Tunku Abdul Rahman (UTAR)

Bachelor of Engineering (Hons) Mechanical Engineering
January 2009 - September 2012
Grade: Second Class (Upper Division)

Chong Hwa Independent High School

Unified Examination Certificate (UEC), Science Stream
January 2002 - December 2007

Online Courses

Coursera

- Server-side Development with NodeJS, The Hong Kong University of Science and Technology

- Programming Mobile Applications for Android, University of Maryland, College Park
- Machine Learning, Stanford University

Udemy

- Become an Android Developer from Scratch, Adam Lupu, Learning Scientist & Master Trainer
- Learn Android 4.0 Programming in Java, John Purcell, Software Development Trainer

Amazon Web Services

- AWSome Day - one day training

Languages

English (Professional working proficiency)

Chinese (Simplified) (Native or bilingual proficiency)

Chinese (Traditional) (Limited working proficiency)

Malay (Limited working proficiency)

Cantonese (Professional working proficiency)