

YuYu Ko

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PROFESSIONAL SKILLS

- Programming Language: Java, C#, Visual Basic, R
- Web Design: HTML5, CSS3, Bootstrap, JavaScript, NodeJS, React, Express.js, PHP, Liquid, WordPress.
- Database, data analysis: SQL Server, MySQL, Firebase, Tableau, Excel
- Tools: SAGE, Crystal Report, Shopify, NPM, Yarn, Amazon EC2, REST API, Git, Java Spring MVC.

EDUCATION

Syracuse University

USA

Master of Science in Computer Science

GPA: 3.6/4.0

Aug. 2018 - Dec. 2020

Relevant Course: Design & analysis of Algorithms, Machine Learning, Object Oriented Design, Android Programming

Chung Yuan Christian University

Taiwan

Bachelor of Business Administration: Information Management

GPA: 3.37/4.0

Sep. 2012 - Jun. 2016

Relevant Course: Java, Data Structures, System analysis & Design, Algorithms, Object Oriented Programming

WORK EXPERIENCE

Software Engineer Intern

USA

Leg Avenue Ltd.

May. 2020 - Aug. 2020

- Constructed **C#** and **VB** integration program to **transfer EDI orders** to **Sage** ERP system automatically.
- Created a barcode scanner program by **C#**; implemented fixed-mount barcode readers **API** to enhance warehouse dropship auto pipeline, and store order info to **SQL Server**, get **100%** accuracy for now.
- Collaborated with different departments to demonstrate statistic reports, program by utilizing **Crystal reports** and **C# WinForm** to help colleagues improve productivity, and maintain website by **ASP.NET MVC**.
- Helped cooperating companies to develop **Shopify** Website and inventory system by utilizing **PHP**.

Software Developer

Taiwan

Fiytime International Ltd.

Aug. 2017 - Jul. 2018

- Developed system to support and manage its sales channels by using **HTML**, **CSS**, **PHP** and **MySQL Database**.
- Improved operations by fetching data from MySQL Database, used **Excel**, **R**, **Tableau** to predict future sales, created reports to review profit margin history and maximize operational efficiency.
- Designed procedures and functions to store information, helped developers for risk analysis by **MySQL**, **Excel**.
- Maintained and designed system by **C# WinForm** and Integrated with **SQL Server** by **Access**.

PROJECTS

Event Search and Ticket Recommendation (REST API, Amazon EC2, Java Servlet)

Apr. 2020

Aim to use personalization to improve event search and recommendation based on visit history

- Developed an interactive web page (**HTML/JavaScript**) for users to search events, update preference, view recommended events, and utilized **MySQL** to store user preference and event information.
- Developed a **web service** using (**Java Servlet**, **REST API**) to fetch event data from TicketMaster API.
- Designed a content-based recommendation algorithm to match similar events based on categories.
- Improved precision of recommendation by ordering events based on distance, stars, and matched categories.
- Deployed server side on **Amazon EC2** and Tested the web service and app with unit tests (**JUnit**) and load tests (**JMeter**). Utilized **ELK** stack to monitor the geographic distribution of users.

Geo-index based social network (React, Google API, GCE)

Feb. 2020

Developed a scalable social network for users to share their activities based on geo-location.

- Built a scalable web service in Go to handle posts and deployed to Google Cloud (**GAE flex**) for better scaling.
- Utilized ElasticSearch (**GCE**) to provide geo location-based search functions such that users can search nearby posts within a distance (e.g. 300km)
- Performed Google **Dataflow** to implement a daily dump of posts to **BigQuery** table for offline analysis.
- Applied Google Cloud ML API and TensorFlow to train a face detection model for the social network.
- Designed an interactive web page with **React JS**, Ant Design, **Geo-Location API** and **Google Map API**.
- Implemented token-based registration/login/logout flow with **React Router**.

E-Commerce Clothing Website (React, Redux, Firebase, yarn, Stripe API, Git, Heroku)

Aug. 2019

- Set up an E-Commerce website by implementing the react and Google Firebase as full-stack website.
- Designed and built from scratch by using **CSS**, **HTML**, **React** and keep optimizing server efficiency.
- Utilized Git to deployed with **Heroku** server and implemented **Stripe API** with complete payment flow.