

Junlong Chen

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Portfolio: junlongchencoding.com

SKILLS

- **Languages:** Java, C#, PHP, JavaScript, SQL
- **Technologies:** MySQL, Spring, ASP.NET, Git, AWS, Unity, Docker

EDUCATION

Fairleigh Dickinson University

Master of Science in Applied Computer Science

Vancouver, BC, Sep 2021 – Jan 2023

CGPA 3.94/4.00

PROJECT EXPERIENCE

- **Android App for Parent-child Activities Plan (Android Studio, XAMPP, AWS, Java, PHP, SQL)**
 - Implemented user registration and log in feature using MySQL via XAMPP. Created user table in MySQL database, used POST method to send register and log in information as query input. Implemented queries in PHP hosted in XAMPP Apache server.
 - Designed and implemented plan match strategy according to user's work type, available time slots and children's preference. Used GET method to send request and parsed json array to fetch result.
 - Implemented user activity history feature using GET method to fetch user's past selection listed by descending order of frequency.
 - Implemented set alarm feature and set calendar event feature using the AlarmClock api and Calendar api.
 - Deployed the application server on AWS EC2 and MySQL database on AWS RDS.
- **2D Platformer Multi-player Turn Based Tank Game (Unity, C#)**
 - Came up with a complete game design and technical design.
 - Utilized game object using prefab, built terrain using tilemap.
 - Implemented destructible terrain and screen shaking effect.
 - Implemented the in-game features using Player Inputs, 2D collision, physics.
 - Implemented the turn-based feature using system time and the state of object references.
- **ToDo List web application (ASP.NET, MVC, C#)**
 - System design of Web app as Front end (UI, Business logic, Service interface acts like a client) and Web api as Back end (Server, EntityFramework, Database).
 - Implemented ToDo list with data submission using POST method and data retrieve using GET method via MVC framework.
 - Implemented client side data validation using ASP.NET attribute decorator and JavaScript.
 - Conducted Automated test using xUnit.NET framework.
 - Containerized both Web app and Web api using Docker.
- **Pizza Order web application (Python, Flask, JavaScript, MySQL, AWS)**
 - Implemented server to handle customer input (pizza type, size, count) using Flask.
 - Assigned GUID as order ID and stored order into MySQL database, display order confirmation to customer.
 - Implemented customer search order with order ID feature by fetching and parsing data from database. Deployed MySQL database on AWS RDS.

WORK EXPERIENCE (Automotive/Mechanical Industry)

Mubea Automotive Components (Taicang) Co., Ltd.

Test Supervisor, 2017 - 2021

- Supervised test team of 2 test engineers and 3 test technicians to maintain the daily operation of a test lab with 6 durability test machines and 2 cyclic corrosion test machines.
- Standardized the working procedure of test lab which then has been certified by ISO 17025.
- Reviewed test plans and schedules within test team and communicated with customer project teams to finalize the customer validation plan and delivery deadline.
- Mentored test engineers to ensure the quality of delivery and transparency among team.
- Led new test bench installation and calibration both locally and at subsidy.

BOSCH Automotive Diesel Systems Co., Ltd.

Testing Engineer, 2014 - 2017

- Designed validation plan for new platform.
- Conducted functional and reliability test, analyzed tested samples and wrote test reports.
- Conducted non-standard test for failure analysis by using sensors and strain gauges, acquired test data using LabView and processed data using FAMOS to filter the noise in the signal.
- Conducted bearing load test at customer's engine test bench using strain gauges.