SHI CHANG TAN

Software Engineer

PROFILE

Seeking to get a challenging position in the computer science industry where I can utilize my experience and knowledge in machine learning and data analysis to develop innovative solutions and contribute to organizational growth.

CONTACT

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FIELDS OF INTEREST

- Algorithms
- Artificial Intelligence
- Data Engineering

WORK EXPERIENCE

KF TECHFLOW SOLUTION
Back End Developer
April 2022 - June 2023

- Revamped web application architecture by implementing Laravel and CodeIgniter frameworks for PHP and SQL programming; Streamlined data management processes, achieving 25% faster query response times.
- Optimized website performance and scalability, increased server response rate by 40%.

Junior Web Developer
October 2021 - March 2022

- Collaborated with cross-functional teams to implement website features, enhancements, and bug fixes.
- Actively participating in code reviews, leading to a 20% increase in code quality, and found a cross-site scripting vulnerability.
- Utilized HTML5, CSS3, and JavaScript to develop user-friendly web-applications.

PG Mall Sdn. Bhd.
Industrial Trainee
June 2021 - August 2021

- Completed a comprehensive industrial training program on web development on international projects while learning and applying HTML5, CSS3 and PHP languages.
- Gained practical experience in front-end and back-end technologies, responsive design, and user-centered development principles by developing a mobile-first design web application while working with a team of 3 other developers.

Sophic Automation Sdn. Bhd.
Software Developer
April 2019 - June 2019

- Architected and implemented project-based C# software applications with a group of 4 developers.
- Integrated application with Microsoft SQL server to streamline oven monitoring systems, resulting in a 50% acceleration on monitoring ovens on multithreading and 35% reduction in memory allocation to fulfill temperature calibration accuracy by 80%.

TECHNICAL SKILLS

- Python
- C++
- Java (Android Studio)
- C# (WPF)
- SQL (Microsoft SQL, MySQL)
- JavaScript (jQuery, JSON, AJAX)
- PHP (Laravel, CodeIgniter)
- HTML / CSS
- Git
- Microcontrollers (Arduino)
- Microsoft Office

SOFT SKILLS

- Communication
- Presentation
- Listening
- Creative Thinking
- Teamworking

LANGUAGES

- Mandarin (Native, Read & Write)
- English (Read & Write)
- Malay (Read & Write)
- Hokkien (Dialect: Verbal)

Industrial Trainee
December 2018 - March 2019
- Conducted research on software development for Internet of Things (IoT) applications, focusing on hardware connection, user-interface design, and client-developers project requirements communication.
- Developed low-cost sensors to gather real-time data and increased efficiency of data usage 40%, resulting in a 20% decrease in energy consumption overall.

EDUCATION

UOW Malaysia KDU Penang University College
September 2019 - October 2021
Bachelor of Computer Science (Hons)
Major in Artificial Intelligence
CGPA: 3.39 / 4.00

April 2017 - April 2019
Diploma in Computer Studies
CGPA: 3.31 / 4.00

Chung Ling High School Penang
January 2012 - November 2016
Malaysian Certificate of Education (SPM) 2016

PROJECTS

Thermal Body Temperature Monitoring System
- Developed an individual project on leveraging Artificial Intelligence and IoT technologies to analyze health conditions during the COVID-19 pandemic.
- Designed C# software application successfully with Microsoft SQL server for body temperature recognition and identified potential health risks, contributing to public safety efforts.

Coursework Management System
- Assessed as a team, concentrating on web graphical design elements (User-Interface) with HTML5 and CSS3 for the completion of a management system that functions between students and lecturers.

EXTRA-CURRICULAR ACTIVITIES / ACHIEVEMENTS

Vice Secretary of UOW KDU Computer Club
April 2018 to April 2019

REFERENCES

Dr. Yeap Gik Hong, Head of School of Engineering & Computing
UOW KDU Penang University College
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