



# 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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#### **Dr. Ng Fong Chiu, Senior Lecturer**

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