



# SHI CHANG TAN

## Back End Developer

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

## Contact

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## Education

Sep 2019 – Oct 2021  
**Bachelor of Computer Science (Hons)**  
UOW Malaysia KDU Penang  
University College

Apr 2017 – Apr 2019  
**Diploma in Computer Studies**  
UOW Malaysia KDU Penang  
University College

Jan 2012 – Nov 2016  
**Malaysian Certificate of Education (SPM) 2016**  
Chung Ling High School  
Penang, Malaysia

## Technical Skills

- Python
- HTML5, CSS3
- PHP (Laravel, CodeIgniter)
- JavaScript
- SQL (Microsoft SQL, MySQL)
- Git
- C# (WPF)
- C++
- Java
- Microcontrollers (Arduino)
- Microsoft Office

## Experience

**Back End Developer** Apr 2022 – June 2023

KF TECHFLOW SOLUTION

- Revamped web application architecture by implementing Laravel and CodeIgniter frameworks for PHP 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** Oct 2021 – Mar 2022

KF TECHFLOW SOLUTION

- 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.

**Industrial Trainee** Jun 2021– Aug 2021

PG Mall Sdn. Bhd.

- 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.

**Software Developer** Apr 2019 – Jun 2019

Sophic Automation Sdn. Bhd.

- Architected and implemented project-based C# WPF 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%.

**Industrial Trainee** Dec 2018 – Mar 2019

Sophic Automation Sdn. Bhd.

- Conducted research on software development for Internet of Things (IoT) applications, focusing on hardware connection, user-interface design, and client-developers project requirements communication.

## Soft Skills

Communication	<div><div></div></div>
Creativity	<div><div></div></div>
Teamwork	<div><div></div></div>
Meeting deadlines	<div><div></div></div>
Critical thinking	<div><div></div></div>
Presentation	<div><div></div></div>

## Achievement

Apr 2018 – Apr 2019

Vice Secretary of UOW KDU  
Computer Club

UOW Malaysia KDU Penang  
University College

## 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# WPF 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.

## Languages

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

## References

### Dr. Yeap Gik Hong

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Engineering & Computing  
UOW KDU Penang  
University College

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### Dr. Ng Fong Chiu

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UOW KDU Penang  
University College

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