

# WONG SUM YU

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## ABOUT ME

I am a recent Computer Science graduate from Universiti Tunku Abdul Rahman (UTAR), seeking a full-time role in full-stack development. Proficient in both front-end and back-end technologies, with hands-on experience gained through internship and academic projects. I bring strong problem-solving skills and a passion for building efficient, scalable, and user-friendly web applications.

## EDUCATION

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### Bachelor of Computer Science (Honours)

June 2022 – May 2025

Universiti Tunku Abdul Rahman, Kampar, Perak

- CGPA: 3.5310
- Relevant Course: Data Structure and Algorithm, Object-Oriented Programming, Front-End Web Development

### Foundation in Arts

May 2021 – May 2022

Universiti Tunku Abdul Rahman, Kampar, Perak

- CGPA: 3.50

### Malaysian Certificate of Education (SPM)

2015 -2021

SMK Buntong, Ipoh, Perak

- Result = 8A's , 1B, 1C

## INTERNSHIP EXPERIENCE

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### Software Developer Intern

Generic Exception Sdn Bhd, Petaling Jaya, Selangor — [Oct 2024 – Jan 2025]

- Collaborated in a team to develop and maintain features on a web-based application using React.js and Node.js.
- Integrated RESTful APIs using Django REST Framework.
- Worked on responsive UI components using Tailwind CSS.
- Participated in daily stand-ups and code reviews, improving team communication and code quality.
- Resolved bugs, optimized performance, and contributed to documentation and testing.

## PROJECT EXPERIENCE

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### KeySound E-commerce Website (Final Year Project)

Built a full-stack e-commerce web application with distinct interfaces for both users and administrators:

- Designed and implemented user-facing features such as product browsing, cart management, secure checkout, and real-time order updates.
- Built an admin dashboard to manage products, process orders, and monitor user accounts with role-based access controls.
- Integrated advanced functionalities including a **personalized recommendation system**, a **chatbot API** for customer support, a **price drop alert feature**, and a **“make an offer” option** to improve user engagement and drive conversions.

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- Ensured seamless communication between the frontend and backend using **RESTful APIs**, with robust **user authentication** and **authorization** for data security and access control.

## Pomotask – Study Planner & Task Manager with Pomodoro Application

Developed a cross-platform mobile application (iOS/Android) integrating task management, study planning, and Pomodoro productivity techniques into a unified tool:

- **Task Management:** Implemented real-time task tracking with subject tags, priority flags, due-date alerts, and a synchronized Kanban-style board (“To-do / In-progress / Done”) using Firebase Firestore.
- **Study Planner:** Built a drag-and-drop scheduling interface with native calendar integration and session conflict detection.
- **Pomodoro Timer & Analytics:** Created configurable Pomodoro timers that auto-log time per task and display productivity analytics via charts and summaries.
- Utilized Firebase Authentication for secure login and Cloud Storage for user data persistence across devices.

## Math Adventure Mobile App

- Developed a gamified math learning mobile application for children using React Native.
- Implemented three interactive game modes: Compare Numbers, Order Numbers, and Compose Numbers, designed to improve fundamental math skills.
- Designed and integrated a tier progression system (Beginner to Diamond) to motivate users through performance-based achievements.
- Added real-time feedback, animated celebratory messages, and a dynamic difficulty adjustment mechanism based on score tiers.

## Stock Management System

- Built using Java within the Eclipse IDE, leveraging object-oriented programming principles.
- The system effectively tracks and manages inventory for a shop.

## Malaysian Cuisines Website

- A website dedicated to showcasing the rich and diverse culinary heritage of Malaysia, featuring traditional recipes, cultural insights, and food-related experiences.
- Utilized web development technologies such as HTML5, CSS3, JavaScript, jQuery, and Bootstrap.

## Rock, Paper, Scissors Game

- The Rock, Paper, Scissors game is a simple interactive game where the user selects one of the three actions—Rock, Paper, or Scissors—to compete against a randomly generated choice by the computer. The game is developed using JavaScript, HTML, and CSS to provide a dynamic and engaging user experience.

## CERTIFICATIONS

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MERMC2023 Malaysia Final	1 <sup>st</sup> Runner Up	Completed 23 Sept 2023
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*MonsoonSIM Enterprise Resource Management Competition (MERMC) 2023*

- Apply the concept of Enterprise Resource Planning (ERP) through fun simulation games.

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- Effectively utilized the system developed by the MonsoonSim program, demonstrating proficiency in managing key parameters such as gross profit, space utilization, machine utilization, market share, and retail share.

## SKILLS & INTERESTS

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### Language:

English | Chinese | Malay | Cantonese

### Programming Skills:

C++ | Java | Python | HTML | CSS | JavaScript | TypeScript | MySQL | SQL Plus | Bootstrap | Tailwind CSS | React.js | Node.js | Django REST Framework | MongoDB | React Native

### Personal Skills:

Time management | Problem-solving | Multitasking