

# Cheah Zixu

Computer Science Student

**Based in**  
**Penang, Malaysia**

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A computer science student and tech enthusiast with a passion for creating user-friendly websites and web applications who always eager to try out new technologies and stay up-to-date with the latest developments and committed to making a positive impact in the world through work in technology.

## Work Experience

### Software Engineer (Part-Time)

Since August 2021

- Collaborated remotely with team
- Gained priceless work experience
- Met people in the industry

### Freelance Full Stack Web Developer

Since June 2021

- Designed & built personalized, responsive, interactive, SEO-friendly websites
- Planned & customized Content Management System based on client requirements
- Utilized Edge Functions to deliver contents with speed
- Built payment gateway that integrates with payment processing platforms
- Project Manager: planning, budgeting, execution of interactive websites

## Education History



### Bachelor of Computer Science (Hons)

Taylor's University Malaysia,  
2022 - Current

- **Specialization:** Artificial Intelligence
- **Lead:** Google Developers Student Club
- **Secretary:** Taylor's Makers Club



### Foundation in Science (Tech Stream)

Universiti Tunku Abdul Rahman,  
2021 - 2022



### Computer Science Stream

Chung Ling High School Penang,  
2016 - 2020

- **President:** i-CreatorZ Club (Maker's Club)
- **Leader:** Graduation Magazine Computing Unit
- **Shift Leader:** Board of Librarians
- **Department Director:** Leo Club

## Languages

- HTML/CSS - JavaScript
- NodeJS
- PHP
- Python
- Java
- SQL + GraphQL
- C++
- Kotlin
- Dart
- C#

## Frameworks

- ReactJS
- Gatsby
- Tailwind CSS
- ExpressJS
- Electron
- Tensorflow
- Flutter
- React Native
- Expo

## Platforms

- Docker
- Firebase
- Amazon Web Services
- Microsoft Azure
- Oracle Cloud
- Google Cloud Platform
- DigitalOcean
- Heroku
- Netlify
- Vercel
- Sanity CMS
- Wordpress
- BitBucket + Jira
- GitHub & GitLab
- Unity + PlasticSCM

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## Projects Built

### • CrowdDetect

- Estimate crowd size in metro stations
- Powered by Tensorflow
- Built a full-fledged web application using React within short period of time
- Participated in KitaHack 2023 Malaysia

### • MLAQ Machine Learning Project

- Predicts optimal amount of vehicles on road to reach target Air Pollution Index
- Built with TensorflowJS
- Participated in International Science Youth Forum in Singapore

### • Twittercard API

- Self-hosted API
- Generates beautiful Twitter tweet image
- Built with ExpressJS

### • pdftools API

- Self-hosted API
- Includes various tools to modify PDFs
- Built with Java & JakartaEE

### • PollutionDetect Deep Learning Project

- Uses object detection to detect amount of vehicles on road
- Built with Facebook Detectron
- Participated & won in FirstDayHack AI Hackathon by Taylor's Uni

### • Idea Hunt App

- Users can submit ideas and find developers to make it a reality
- Built with Flutter
- Participated in Penang International Science Fair 2019 Mobile Apps Challenge

### • IntelliGuard App

- Help offices to register visiting customers thru Intranet
- Able to customize different level of access
- Participated and won in Young Innovators Challenge 2019

### • Zeta Discord Bot

- Written in JavaScript
- Users can follow news feeds in an easy and fast way
- Participated and won a school competition

### • Club Attendance Web System

- Web system to mark attendance
- Integrated with Arduino + RFID
- Built with ExpressJS

### • upBot

- Discord bot written in JavaScript
- Upload files to an external server and have their links shared automatically

### • School Bulletin Website

- Web app to read school bulletin
- Contribution to Chung Ling High School
- Built with ReactJS & GraphQL
- Integrated with Google Firebase

### • Chung Ling High School Website Revamp

- A website that introduces my school
- Participated in Penang International Science Fair 2019 Web Dev Challenge

### • Antiqua Management System

- Web-based sales management system
- Built with HTML, CSS, JavaScript, PHP, and MySQL



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