

Cheah Zixu

Computer Science Student

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+60 18 276 4331

Highly motivated and results-oriented Computer Science student specializing in Artificial Intelligence, with proven experience in full-stack web and mobile development, including AR applications and AI/ML integration. Demonstrated ability to deliver innovative solutions in both team and freelance settings, with a strong track record of successful projects and hackathon achievements.

Work Experience

Full Stack Web Developer (Contract)

since September 2024

- Designed & developed robust web systems for clients across various industries
- Designed & developed a cross-platform mobile application
- Collaborated closely with a small remote team
- Created reusable UI components to code maintainability, consistency, and reducing development time

Software Engineer (Part-Time)

August 2021 - December 2024

- Designed & developed scalable web systems for clients, focusing on manufacturing execution system
- Developed an augmented reality (AR) app to visualize & interact with a digital twin of an assembly plant
- Led the migration of a legacy application from PHP to React
- Actively participated in weekly team discussions

Freelance Full Stack Web Developer

since June 2021

- Designed and built personalized, responsive, interactive, and SEO-friendly websites for diverse clients
- Designed and customized Content Management Systems (CMS) to meet specific business needs
- Implemented edge network solutions to improve website performance and reduce latency for global users
- Integrated secure payment gateways using gateways such as Stripe
- Self-managed project planning and budgeting for each project
- Developed and maintained CI/CD pipelines, automating the build, test, and deployment processes

Education History



Bachelor of Computer Science (Hons)

Taylor's University, 2022 - Current

- CGPA: 3.57
- Dean's List: Jan 2023, Aug 2023
- Specialization: Artificial Intelligence
- Lead: Google Developer Students Club
- Secretary: Taylor's Makers Club



Business Administration (Exchange)

Inha University (South Korea), 2024



Foundation in Science (Tech Stream)

Universiti Tunku Abdul Rahman, 2021 - 2022

- CGPA: 3.56



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

Skills & Interests

Programming Languages: Java, C++, C#, Python, Node.js

Web Development: HTML, CSS, JS, TypeScript, PHP, React.js, Next.js, Tailwind CSS, Express.js

Mobile App Development: Kotlin, Dart, Flutter, Expo, React Native

Cloud Computing: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), Oracle Cloud, Digital Ocean

Databases: SQL, MySQL, PostgreSQL, MongoDB, Firebase Realtime Database, Firestore

CMS: Sanity, Wordpress CMS, Strapi

DevOps: Docker, Bitbucket, Jira, Netlify, Vercel

AI/ML: TensorFlow, PyTorch, Keras

Embedded Systems/IoT: Arduino, Raspberry Pi

AR/VR: Unity, ARKit, ARCore

Operating Systems: Linux

Networking: TCP/IP, HTTP, DNS

UI/UX Design: Figma, Adobe XD, Framer

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Previous Works

DebtFree [PayHack 2024 - Top 30]

- **App Functionality:** DebtFree is a mobile app that offers personalized debt management solutions.
- **Key Features:** AI-powered advisor, data insights, predictive models, and real-time financial tracking.
- **Benefits:** Seamless debt repayment, reduced interest payments, and wealth-building opportunities.

PoxNote [Google Hackathon 2024 - Top 8]

- **Solution Goal:** Create a cost-effective, scalable, and user-friendly solution for SMEs.
- **Solution Features:** Addresses task delegation, communication breakdown, and policy management challenges.
- **Technology Used:** Leverages Google Workspace for a comprehensive platform.

Memorable [HackAttack 2024 - 1st Runner Up]

- **Project Goal:** To create an AR travel app that allows users to relive historical and memorable moments.
- **App Functionality:** Users can experience historical events at specific locations as if they were present.

Intervue [DevHack 2023 - 2nd Runner Up]

- **Purpose:** Revolutionize the hiring process by making it efficient, insightful, and engaging.
- **Function:** Automates various aspects of recruitment to streamline candidate evaluation.

OptiPlan [ImpactHack 2023 - Top 10]

- **System Function:** Smart inventory management system for SMEs
- **Key Features:** Interactive visualization, OCR technology, GPT integration

CrowdControl [KitaHack 2023 - Top 10]

- **Solution:** CrowdControl is a machine learning-based solution for real-time crowd number estimation.
- **Benefits:** Provides insights for managing crowded spaces and enhancing public safety.
- **Technical Features:** Uses a multi-column convolutional neural network model for accurate population density assessment.

MLAQ [International Science Youth Forum 2020 Singapore]

- **Project Goal:** Improve air quality by predicting air pollution factors using machine learning.
- **Methodology:** Utilizes TensorFlowJS and government-provided data to build the MLAQ model.

MyTACC [1stDayHack Hackathon 2020 - 3rd Place]

- **Project Goal:** Implementing traffic analysis measures can aid in monitoring and controlling the number of vehicles on the roads.
- **Sustainable Transportation:** Utilizing object detection technology can help regulate traffic and reduce carbon emissions.

IdeaHunt [Penang International Science Fair 2019 Mobile Apps Challenge]

- **App Functionality:** Idea exchange, project collaboration, and job opportunities.
- **Target Users:** Professionals in creative fields.
- **Technology Stack:** Flutter and Google Firebase.

IntelliGuard [Young Innovators Challenge 2019]

- **Goal:** Enhance security guard operations by digitalising visitor management processes.
- **Features:** Real-time dashboards, secure authentication, and e-ticketing functionality.
- **Benefits:** Improved productivity, minimised errors, and enhanced safety of restricted areas.

Club Attendance Web System

- **System Function:** Advanced attendance management system for the i-CreatorZ Club.
- **Technology Used:** RFID technology, cloud-based infrastructure, NodeJS, and React.

School Bulletin Website

- **Purpose:** Revolutionises information dissemination within Chung Ling High School.
- **Features:** Centralised online platform with a user-friendly website and administrative interface.
- **Benefits:** Enhances accessibility, convenience, and environmental sustainability.