

# Cheau Ling, Wong

Frontend Engineer · Full Stack

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## Summary

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Frontend Engineer with 10+ years shipping production products across AI, media, and gaming. Spent three years taking the DCWiz AI platform from early stage to enterprise demos, building the AI Canvas end to end while also covering simulation UX, auth, testing, and a full company rebrand. Strong in real-time systems, data visualisation, and workflow UX. Uses AI tools to move faster, with automated testing and code review as guardrails.

## Experience

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**Frontend / Full Stack Engineer** · Sep 2022 – Present

**Nanyang Technological University (NTU) · Red Dot AI** · Singapore

- Built the AI Canvas from scratch in Next.js and React Flow, growing it from an initial framework into the tool the team uses to run AI data analysis in enterprise demos. It now handles real-time multi-user sessions, custom AI workflows, SSE streaming, image upload with MiniIO storage, XLSX preview, HTML report rendering, and chart templates.
- Delivered the broader DCWiz platform across the simulation, monitoring, and AI recommendation modules, including version history, model comparison, view-only access controls, knowledge base management, and XLSX export for an enterprise customer.
- Led the frontend architecture refactor to Next.js and MUI, and cut critical API fetch times from ~4s to ~1s through request parallelisation and caching. Translated Figma wireframes into production UI across the platform.
- Led the frontend Keycloak and NextAuth integration through two major upgrades (v6 to v9, v22 to v25), covering password policies, session timeout, OAuth redirect handling, and security hardening across environments.
- Set up Playwright and Cypress test suites with GitHub Actions CI across two frontend repos, extending end-to-end coverage to canvas workflow and auth flows.
- Took on the company rebrand solo: migrated rda.ai from Wix to Webflow and built reddot.space from scratch, shipping both production sites within a month. Used Claude and Claude MCP throughout for structural refactoring and CMS iteration, saving an estimated 8+ days, and set up SEO, GA4, and Search Console for both sites.
- Built an internal branding system alongside the rebrand: self-serve name card and email signature generators, a shared brand design system, reducing manual formatting and design handoff work for the team.

**Senior Software Engineer (Frontend)** · Apr 2017 – Aug 2022

**Warner Music Group Global Technology** · Selangor, Malaysia

- Joined as a Frontend Developer and promoted to Senior Software Engineer; over five years, responsible for AngularJS and Node.js core business workflows while coordinating a small team to hit delivery milestones.
- Led Android release deployment to the Google Play Store, handling release management, publication upkeep, and pending native features to improve production readiness.
- Worked closely with Product, Business Analysts, and Technical Architects on requirements, technical documentation, scalable codebases, and Level 2/3 production support.

**Front End Developer** · Jun 2014 – Mar 2017

**Garena Malaysia** · Kuala Lumpur, Malaysia

- Sole frontend developer in Malaysia, building and maintaining landing pages, microsites, and CMS frontends for League of Legends and EA Sports campaigns across Southeast Asia.
- Built responsive web experiences in HTML, CSS, JavaScript/jQuery, Drupal, and Bootstrap, and supported on-ground eSports events in technical and operational roles.

## Skills

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**Frontend:** React, Next.js, TypeScript, JavaScript, HTML, CSS, Material UI, Redux Toolkit, RTK Query, React Flow, NextAuth, ApexCharts, AngularJS

**Backend:** Python (FastAPI, Pydantic), Node.js, WebSockets, Server-Sent Events (SSE), Keycloak, PostgreSQL, InfluxDB, Docker

**Testing / DevEx:** Playwright, Cypress, GitHub Actions, Postman

**Design / Product:** Figma, design systems, workflow UX, accessibility-aware UI, data visualisation

**Workflow / Tools:** Cursor, Claude, Claude MCP, Gemini, OpenCode, JetBrains IDEs, Jira, GitHub, Lens

## Education

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**Universiti Kebangsaan Malaysia (UKM)** · Oct 2014

Bachelor of Information Technology (Hons), Multimedia Studies · CGPA 3.61 / 4.0

*Ajou University, South Korea* · Summer School Exchange, Nov 2013

## Side Project

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### Figma Make Bot, Personal Experiment

- Built an AI tool that converts ideas, documents, or URLs into Figma Make prompts, automates submission with Playwright, and evaluates output through screenshot-based review passes to improve fidelity and usability.

## Freelance & Community

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### Website Development (Freelance)

- Rabu Padu PUBG Mobile 2022 Microsite, Tencent Games Malaysia
- PUBG Vivo Turbo Cup Challenge 2022 Microsite, Mineski Malaysia

### Event Management (Volunteer)

- Assistant Head Guest Liaison, Comic Fiesta (2014, 2018, 2019, 2022–2024)
- Stage Manager / Panel Manager, Comic Fiesta (2013–2017)
- Liaison Officer, MLBB Southeast Asia Cup 2022
- Stage Manager, PUBG Mobile Malaysia National Championship 2019

## Languages

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English (native) · Bahasa Malaysia (native) · Mandarin (conversational) · Cantonese (conversational)