

Doris Ying-Ying Cheng

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SUMMARY

Full-stack Developer (5+ years) specializing in **Web Development** and interactive 3D environments. Expert in React, Node.js, and automated deployment workflows (CI/CD) for scaling high-performance SaaS platforms and digital products [[Portfolio](#)].

WORK EXPERIENCE

Software Engineer Intern | PartyMonster Games

Jan 2026 – Present

- Architected and implemented real-time **WebSocket game state synchronization** using **Colyseus** across TV, phone, and server for [Trivia Party](#) and [WordRush Party](#) — top 10 ranked Fire TV apps with 10K+ global monthly downloads.
- Led end-to-end **web development** of a new game mode, including defining technical specs, **RESTful APIs contract design**, **synchronized state management**, product design and frontend UI development using **React**, **TypeScript**, **Node.js**, and **PostgreSQL database**, driving **30% month-over-month growth in MRR** within the first month of launch.
- Engineered automated **quality assurance** testing frameworks and CI/CD pipelines via GitHub Actions in collaboration with the founder, accelerating deployment cycles while maintaining high-availability production releases.

Member of Technical Staff | Taipei City Government

Sep 2019 – July 2024

- Handled technical **product management** for a 3-person engineering team cross-functionally, applying database **design patterns** to optimize platform reliability across SQL (MySQL) and NoSQL (MongoDB) backends for 1,000+ daily users.
- Engineered and deployed a **Python geospatial algorithm** for remote sensing, increasing point accuracy and reducing manual calculation time by 12% through real-time data processing.

Graduate Research Assistant (Machine Learning) | National Taiwan University

July 2017 – June 2019

- Engineered a custom **machine learning Python pipeline** for hyperspectral **image classification** using dictionary-based sparse representation. Published a peer-reviewed conference paper [[Link1](#)][[Link2](#)].

EDUCATION

San Francisco Bay University

2024 – Spring 2026

M.S. in Computer Science, **Specialization in Web Programming and Data Modeling** – GPA : 3.9/4.0

National Taiwan University

2017 – 2019

M.S. in Civil Engineering, **Specialization in Image Processing** – GPA CS-related Class: 4.0/4.0

- Thesis: Hyperspectral Image Classification via Integration of Joint Sparse Representation with Spectral and Spatial Information [[Link](#)]

National Chengchi University

2013 – 2017

B.A. in Land Economics (Minor in English) – GPA: 3.73/4.0

PROJECTS

y2k-flying-bananas (3D Flying Banana Bot) – [[Live Demo](#)][[GitHub](#)]

Jan 2026 – Feb 2026

- **Optimized web performance and user interface (UI) design** for a Y2K-styled 3D application built with React Three Fiber (R3F), achieving high **Core Web Vitals** scores and **SEO visibility** for an interactive chatbot.

Foodie Diary (AI Calories tracking app) – [[Live Demo](#)][[GitHub](#)]

July 2025 – Feb 2026

- Developed a React and TypeScript meal tracker featuring **data visualization** charts and predictive **product features** for macronutrient breakdown, leveraging a **serverless** backend architecture for scalable, cost-efficient request handling.

AI Newsreader & Journalist – [[Summary](#)][[GitHub](#)]

Aug 2025 – Dec 2025

- Built and managed **CI/CD pipelines (GitHub Actions/Cloud Build)** to automate containerization and deployment of microservices to **Google Kubernetes Engine (GKE)**, ensuring seamless updates and high availability via HPA.

SKILLS & COURSES

Languages: Python, JavaScript (ES6+), TypeScript, SQL, HTML/CSS; Familiar: Java.

Frameworks & Tools: React, Next.js, Node.js, Django, Tailwind CSS, REST/WebSockets, Three.js (R3F), Git, Pandas, NumPy.

Cloud Infrastructure management: GCP, Kubernetes (GKE), AWS (Lambda), Docker, and CI/CD pipelines.

Core Skills & Coursework: Quality Assurance(Selenium), Cloud Computing, Data Modeling, Advanced Web Development.