

CAI WEIYU

VETERAN SINGAPOREAN DEVELOPER |
INNOVATIVE PROBLEM-SOLVER



CONTACT

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Singapore

<https://caiweiyu.com>

PROJECT LINKS

[My GitHub](#)

[Landbox.sg - a Digital Twin Project](#)

[Wonder Earth App](#)

TECH SKILLS

- C#, Python, Typescript, C++, Java, Javascript, Swift, Kotlin
- **Web:** React, Node.js, Next.js, Three.js
- **DB:** MongoDB, MySQL
- **DevOps:** Docker, Nginx, Automation test, CI/CD, Agile
- **Mobile:** Android/iOS, React-Native
- **Engine:** Unity, Unreal Engine
- **Cloud:** AWS, Google Cloud, Firebase, Cloud Functions.
- **Tools:** Git, Perforce, Linux, Android Studio, Xcode



PROFILE

Results-driven developer and founder with over a decade of experience in software innovation, app development, and video game production.

Proven expertise in managing impactful projects, driving revenue growth, and engaging with government stakeholders.



PROFESSIONAL EXPERIENCE

Founder of Yilumi Studio, Singapore

2020 - PRESENT

- **Creator of Landbox.sg**, a digital twin web app enhancing the HDB BTO process.
 - **Full stack web application development:** used modern web development frameworks.
 - **Frontend:** Typescript, React, Next.js, three.js.
 - **Backend:** Node.js, Typescript.
 - Acknowledged by the Prime Minister's Office (PMO)
 - Held multiple discussions with HDB, earning recognition for Landbox.sg's market potential.
- **Creator of Wonder Earth App**, a 3D educational **mobile app** which is renowned in China:
 - Wrote **100K+ lines** of **C#** in Unity Engine from scratch.
 - 5 million downloads, over 1 million users. Revenue > SGD 600k.
 - HuaWei Gallery Editor's Choice (Nov 2022).

Bandai Namco Studio Singapore

2016 - 2020

Senior Software Developer

- **Agile Development:** making key systems in video games like Ace Combat and other prototypes (C++). **Waterfall project management.**

Autodesk Singapore

2013 - 2016

Software Developer

- **Full software development cycle** for software like Maya (C++).
- **Automation test** (Jenkins) and **CI/CD** for faster iteration.
- Visual image **automation test**.

Lucasfilm Singapore

2010 - 2013

Software Developer

- **DevOps:** Automation testing (Jenkins). Implemented a **backup system** for movie visual effects industry (Python).
- Implemented a **digital asset pipeline system**, support **configuration management** (Python).

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COMMUNITY INVOLVEMENT

- Grassroots Leader at Woodgrove RC (2014 – 2019)
- Led Citizen on Patrol initiatives to improve community safety and engagement.

LANGUAGES

- English
- Mandarin Chinese



TECHNICAL SKILLS

Programming Languages: C#, Python, Typescript, C++, Java, Javascript, Swift, Kotlin

Web Full Stack: React, Node.js, Typescript, Next.js, Three.js, R3F, HTML, CSS, Modern Build Frameworks. Frontend / Backend. RESTFUL APIs.

DevOps: Docker, Nginx, Automation test, CI/CD, Agile.

Database: MongoDB, MySQL, Firebase Firestore.

Mobile: React Native, Android, iOS.

Cloud: AWS, Google Cloud, Firebase, Cloud Functions.

Tools: Git, Perforce, Linux, Android Studio, Xcode

Game Engine: Unity, Unreal Engine.

Notes: All above skills are used to build mobile apps and web app to serve millions of users, with stable services.



LEADERSHIP & MANAGEMENT SKILLS

Regulatory Strategy: Proven ability to navigate regulatory landscapes and platform support across foreign markets, exemplified by Wonder Earth's success in China.

Stakeholder Engagement: Skilled in managing cross-cultural communications and liaising with high-level stakeholders, securing recognition and interest from entities like HDB for Landbox.sg.

Competitive Response: Successfully mitigated the impact of a competitor's unethical and false report to foreign regulators, ensuring the integrity and continuity of our app.



EDUCATION

Master of Science, Digital Media 2009 - 2011
Nanyang Technological University
GPA: 4.68 / 5.00

Bachelor of Engineering, BioEngineering 2003 - 2007
Nanyang Technological University
2nd Upper Honors