CAI WEIYU

VETERAN DEVELOPER & EDUCATOR |
TAUGHT MILLIONS TO CODE THROUGH MY
INNOVATIVE TEACHING APP

CONTACT

- +65-9231-5056
- caiweiyu@gmail.com
- Singapore
- https://caiweiyu.com/educator_resume

PROJECT LINKS

- My GitHub
- Landbox.sg - a Digital Twin Project
- Scratch Tutorial App
- Wonder Earth App
- My Programming Book

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, founder, and educator with 10+ years in software development.

Proven success in teaching Python and Scratch, with a learning app used by millions of students.

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.
- **Creator of** Wonder Earth App, a 3D educational 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).
- **Creator of** Python/Scatch Tutorial App, teaching programming.
  - Amassed **10 million plus views**.
  - The most popular video tutorial series in China.
  - Author of book "Scratch3.0 Foundation Tutorial".

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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LANGUAGES

- English
- 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.

TEACHING EXPERIENCE

Engaging Educator: Ranked **top** in China's market, my video tutorials captivate millions by making coding fun. From Scratch games to **Python projects**, I excel at sparking students' curiosity through **creative learning**.

Good at Simplifying Complex Concepts: Expert in guiding students to **create meaningful projects** and designing **engaging, holistic coding assessments**.

Broad Expertise: Experienced in software development from industrial software like Maya to scripting, automation, CI/CD, mobile, and web development. **Capable of teaching a wide range of programming concepts**.

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