

CONTACT

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

PROJECT LINKS

- My GitHub
- Regional Landscape Map
- Landbox.sg a Digital Twin Project
- Wonder Earth App

TECH SKILLS

- Geospatial: Maplibre, Mapbox, PostGIS, OSM, OneMap, Vector tile
- 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
- Cloud: AWS, Google Cloud, Firebase, Cloud Functions.
- Tools: Git, Perforce, Linux, Android Studio, Xcode

CAI WEIYU

PROJECT & PRODUCT LEADER | SOFTWARE MANAGER



PROFILE

I'm a hands-on software manager who leads teams to build smart solutions that drive business results. I work closely with stakeholders, keep risks in check, and make sure projects meet all compliance standards. My focus is on delivering real innovation and successful projects that align with business goals.



PROFESSIONAL EXPERIENCE

Yilumi Studio, Singapore

2020 - PRESENT

Founder & Head of Product & Engineering

- Led <u>Landbox.sg</u>, a digital twin web app transforming Singapore's HDB BTO process.
 - Led stakeholder engagement and Agile project management, securing HDB recognition and ensuring timely delivery.
 - Managed risk and compliance, addressing regulatory concerns and data security, earning PMO recognition for Landbox.sg.
 - Tech Stack: React, Node.js, Next.js, AWS EC2, Secured API, Docker Containerization, Typescript.
- Led SG 3D Map, a public accessible geospatial map platform.
 - Built a custom Vector Tile server (PostGIS) using OSM, OneMap, HDB data.
 - Integrated Three.js + MapLibre for rendering with RESTful APIs for location queries.
- Led <u>Wonder Earth App</u>, a high-scale mobile product, leading to 5M+ downloads and \$600K+ revenue.
 - Managed full development lifecycle, from planning to launch.
 - Navigated regulatory hurdles to achieve success in China.
 - Recognition: HuaWei Gallery Editor's Choice (Nov 2022).
 - **Tech Stack**: Unity 3D, C#, Android, iOS, MangoDB, Microservice, CDN, Restful APIs.

Bandai Namco Studio Singapore

2016 - 2020

Senior Software Developer

- **Project Leadership**: Assisted Product Managers in **scrum planning**, project estimation, and delivery.
- Stakeholder Communication: Acted as a bridge between technical teams & business stakeholders.
- Risk Mitigation: Identified project risks using the risk matrix, ensuring delivery without disruptions.
- Agile Development: Created key systems in video games and prototypes.

Autodesk Singapore

2013 - 2016

Software Developer

- Process Improvement: Implemented CI/CD & test automation to accelerate development cycles.
- Project Execution: Made development efforts for Maya, ensuring high-quality software releases.



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LANGUAGES

- English
- Mandarin Chinese

CAI WEIYU

PROJECT & PRODUCT LEADER | SOFTWARE MANAGER

Lucasfilm Singapore

2010 - 2013

Software Developer

- **DevOps & Security:** Established automated backup & asset management pipelines.
- Operational Efficiency: Developed tools improving production workflows in VFX and animation.

LEADERSHIP & MANAGEMENT SKILLS

Stakeholder Communication: Applied **stakeholder analysis** and the **power-interest grid** to engage key decision-makers, as seen with HDB for Landbox.sg

Project Delivery: Applied **PMP skills**, **scope management**, and **critical path analysis** to ensure successful execution, as seen in Wonder Earth's China expansion.

Risk Mitigation: Took a **proactive**, **solution-focused** approach, using the **risk matrix** to address concerns, exemplified by countering a competitor's false regulatory report.

Security & Compliance: Implemented regulatory compliance and data security policies, ensuring project stability.



TECHNICAL EXPERTISE

Project Management: Agile, Scrum, Project Roadmaps, Risk Matrix, Critical Path Analysis, Budgeting

Software Development: Full Stack Web & Mobile, Cloud Infrastructure, DevOps

Web Full Stack: React, Node.js, TypeScript, Next.js, Three.js, MongoDB, Restful APIs

Geospatial: Maplibre, Mapbox, PostGIS, OSM, OneMap, Vector tile, web mapping, location based service.

Security: AWS IAM, Secured API gateway, DNS Routing, Nginx

Tools & Platforms: AWS, Docker, CI/CD, Jira, Confluence



CERTIFICATION

Professional Scrum Master I (PSM I)
Issuer: Scrum.org



EDUCATION

Master of Science, Digital Media 2009 - 2011

Nanyang Technological University **GPA:** 4.50 / 5.00

Bachelor of Engineering, BioEngineering 2003 - 2007

Nanyang Technological University 2nd Upper Honors