

JON MICHAEL JUBELAG

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Experience

Jan 2026 -
Present

Software Engineer (Contract) **ST Engineering / Home Team Science and Technology** **(sub. contracted)**

- Built an AI-driven crowd simulation integrating System-One classifier models and local LLMs to generate context-aware agent behaviours via an MCP and GOAP architecture.
- Built a proof-of-concept RAG-powered 3D avatar in Unity that automates SPF case-report intake through half-duplex voice conversation (Whisper, VoiceStudio, OpenCV).
- Developed features for Sensory-X, an inhouse multisensory (heat, wind, scent) VR training platform integrated with Infinadeck omnidirectional treadmill (ODT). Notable features: Mirror multiplayer for up to 4 concurrent users, ODT locomotion and safety systems.
- Designed close-quarters battle (CQB) scenarios on InVeris and Fortiedge, and ran trials and demos for local and international stakeholders.

Mar 2024 -
Apr 2025

CLIENT ENGINEER **Recoded Pte Ltd – Singapore** Glompa (Android/iOS)

- Partnered with backend engineers, designers and artists to build metagame, monetization, progression and social features in Unity.
- Shipped leaderboards, mail and news, rewards, live events, in-app purchases and ads.

Sept 2021 -
Dec 2023

CLIENT ENGINEER **Gumi Asia Pte Ltd – Singapore** Final Fantasy: War of the Visions (Android/iOS)

- Built localization for cutscenes and tutorials, plus gameplay quality-of-life and social features for the global client.
- Supported content patches and major releases with Japan-based planners in a multicultural team (deployment and workspace management).

Skill Set

Proficient in:

- Unity
- Game and Simulations Development
- Agentic Engineering
- LLM / MCP Integration
- C# / C++
- OpenXR / VR
- Git / SVN / Perforce
- Python / Lua
- Jenkins / GitHub Actions
- SQL (MySQL, Postgre, SQLite)
- REST APIs / HTTP / JSON
- 3D Asset Pipelines

Education

Bachelor of Science in Computer Science and Game Design
SIT/Digipen Institution of Singapore
Graduated 2021

Diploma of Multimedia and Animation
Ngee Ann Polytechnic
Graduated 2014

Add. Info

Singaporean Citizen
Full work rights in Singapore

Completed National Service
with SAF (2014-2016)

Cert. Professional Sound
Mixing
(Hustle Academy 2026)

Credential ID 53d0e72d-5031-4111-ab83-ff42481af450