JONATHAN MOALLEM

Mobile: +61 450 500 490 Email: jdmoallem@icloud.com Personal Site: jonjondev.com LinkedIn: linkedin.com/in/jonjondev Twitter: @JonJonRespawned Github: github.com/jonjondev

EXPERIENCE

Gameloft Brisbane — <u>Senior Gameplay Engineer</u> — <u>Mid-Level Gameplay Engineer</u>	01/2024 - PRESENT 06/2022 - 12/2023
 Delivered of one of Apple Arcade's flagship titles, <u>My Little Pony: Mane Merge</u>, an officially licensed merge game for iOS, macOS, and tvOS, from vertical slice to release and across a handful of content updates with Unreal Engine using C++, Blueprint and Python 	
 Developed and supported several, high-quality, maintainable gameplay features and systems against a tight schedule, including FTUE, load/save, configuration management and multiple mini-games, whilst actively working to improve the health of the codebase 	
Caps Collective — Programmer, Designer & Co-Founder	02/2020 - PRESENT
 Developed several games and software projects in Unity, Godot and Unreal, as well as developing a custom game engine in C++ as part of an open source developer collective 	
• Led and managed a team of part-time developers to publish a 3D city-builder game, <u>Fantasy Town Regional Manager</u> , on Steam, <u>listed by Kotaku Australia</u> amongst the top 10 Australian games of 2021, and AGDAs finalist in emerging games (<i>see portfolio on page 2</i>)	
Animal Logic — Pipeline Software Engineer	03/2021 - 05/2022
 Developed and maintained VFX pipeline systems in Python and C++ for libraries, applications, and DCC plugins based on Pixar's USD 3D scene description format 	
 Contributed to architectural design of core functionality (such as asset resolution), and open sourcing of Animal Logic's Maya USD plugin to <u>Autodesk's public repository</u> 	
Foreign Brief — <u>Android Developer</u>	11/2017 - 10/2019
• Led development of Android app and consulted web API restructure for v2 overhaul	
U:PASS UTS — Programming Tutor	03/2018 - 06/2018
• Tutored students on MVC architecture and UI programming patterns in Java	
Sentia — <u>Junior Rails Developer</u>	01/2017 - 01/2018
• Built out and maintained several Ruby on Rails web-apps for enterprise clients	
Sudo-Code Software — <u>Technical Designer & Co-Founder</u>	09/2014 - 03/2019
• Released a mobile game, <i>Pongagon</i> , attaining over 20,000k downloads on iOS alone	
\bullet Led a team of three developers, managed client interaction, and handled UX&I design	
Interactive Investor — <u>Junior Web Developer</u>	11/2015 - 08/2016
• Developed Wordpress annual reporting sites for corporates, such as Telstra and Westfield	
EDUCATION	

E

University of Technology Sydney — <u>Bachelor of Science (Honours) in IT</u> (87.09 & 98.43 WAM) 2016 - 2020

- Thesis on emergent narrative, game AI techniques and engineering practices
- Published original research to IEEE Conference on Games in AI & interactive drama
- Graduated with high distinction (98.43 WAM), earning university medal

George Mason University, Virginia — $\underline{\textbf{Computer Science}}$ (Academic Exchange) 2018 - 2019

Page 1 of 2 Jonathan MOALLEM

TECHNICAL SKILLS

Programming Languages

	C/C++	Python	Unreal Blueprint	C#	Lua	GDScript	Ruby
--	-------	--------	------------------	----	-----	----------	------

Frameworks & Libraries

Unreal Engine	Godot Engine	Maya API	iOS SDK	Qt
Unity Engine	Pixar USD	GitHub Actions	Android SDK	Ruby on Rails

Misc.

Git Perforce Jira Trello Narrative Design UX&I Design Music Production Data Analytics Video Editing	Git	Perforce	Jira	Trello	Narrative Design	UX&I Design	Music Production	Data Analytics	Video Editing
---	-----	----------	------	--------	------------------	-------------	------------------	----------------	---------------

PORTFOLIO

Fantasy Town Regional Manager

Built a fantasy card-based, town-builder game in **Unity** part time with a small team, listed by Kotaku Australia as one of the **top 10 Australian games of 2021**, and **2022 Australian Game Developer Awards** (AGDAs) finalist for the emerging games category

store.steampowered.com/app/1524530

Run for Covert

Built a fully **procedurally generated**, **online multiplayer**, tactical FPS in **Unreal Engine**, with **HFSM-based AI** and **intelligent cover system**

caps-collective.itch.io/run-for-covert

A Review of Agency Architectures in Interactive Drama Systems

Published an academic paper on interactive drama
& AI in the 2020 IEEE Conference on Games

ieeexplore.ieee.org/abstract/document/9231655

Siege Engine

Built an open-source, light-weight, **custom C++ game engine** based on **Vulkan** graphics API, boasting a **Make-based**, modular build system, unit tested core features, and a **CI/CD pipeline** for compiling cross-platform builds and release management

github.com/CapsCollective/siege-engine

Raylib C++ Starter Kit

Built a lightweight, portable, automated template for raylib game engine library projects with C++ bindings, using Make and CI/CD tooling

github.com/CapsCollective/raylib-cpp-starter

Daily Brief

Built versions 1.0 and 2.0 of a commercial **Android app** for daily geopolitical updates with **subscription features**, including **tags**, **search**, and **map-view**

play.google.com/store/apps/details?id=com.foreign_brief.daily_brief

Check out my Github (@jonjondev), and personal website (jonjondev.com) to see more projects

OTHER ACHIEVEMENTS & HONOURS

- Achieved University of Technology Sydney's engineering faculty Dean's List across 2017, 2018, and 2021
- Won the Game Narrative Review Gold Award for paper presented at GDC San Francisco
- Selected as one of 11 amongst 8000+ students across Australia as one of AFR's Top 100 Future Leaders for technology
- · Completed 12 games in 12 months challenge, winning best-in-showcase awards for three separate entries

Jonathan MOALLEM Page 2 of 2