JONATHAN MOALLEM

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EXPERIENCE

EXPERIENCE	
Animal Logic — Pipeline Software Engineer	03/2021 - PRESENT
 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 	
 Delivered and supported high-quality, maintainable code against quarterly schedule, while working to proactively improve the health of the codebase across productions 	
 Collaborated with on-site and remote (Vancouver) team, participating in regular code review, agile development practices, and working to improve test coverage 	
 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> 	
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, Fantasy Town Regional Manager, on Steam, selling 1000+ copies in its first week, and <u>listed</u> by Kotaku Australia as one of the top 10 Australian games of 2021 (see portfolio on page 2)	
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 — <u>Programming Tutor</u>	03/2018 - 06/2018
Tutored students on MVC architecture and UI programming patterns in Java	
Sentia — Junior Rails Developer	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 — Junior Web Developer	11/2015 - 08/2016
• Developed Wordpress annual reporting sites for corporates, such as Telstra and Westfield	
EDUCATION	
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	
• Undergrad focussing on web and mobile apps development as well as interaction design	
George Mason University, Virginia — <u>Computer Science</u> (Academic Exchange)	2018 - 2019

Jonathan MOALLEM Page 1 of 2

TECHNICAL SKILLS

Programming Languages

C++	Python	Lua	Swift	JavaScript	Dart	PHP
C#	С	Java	Ruby	GDScript	Crystal	Rust

Frameworks & Libraries

Unreal Engine	Qt	Maya API	iOS SDK	Node.js
Unity Engine	Pixar USD	Docker	Flutter	Ruby on Rails
Godot Engine	LÖVE 2D	Android SDK	React.js	Django

Misc.

Photoshop	Git	Trello/Jira	Video Editing	UX&I Design	Narrative Design	Music Productuction	Data Analytics

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**

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

<u>A Review of Agency Architectures in</u> <u>Interactive Drama Systems</u>

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

ieeexplore.ieee.org/abstract/document/9231655

A Dark Discomfort

Built a **custom C++ game engine** based on **raylib** with unit testing and a **CI/CD pipeline** for testing cross-platform builds and release management

github.com/CapsCollective/a-dark-discomfort

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

 $\textit{Check out my Github (\underline{@J-Mo63}), and personal website (\underline{\textit{jonathanmoallem.com}}) to see \textit{more projects}}$

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