



## JACKSON LUFF

SOFTWARE ENGINEER  
10 YEARS XP

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### REFERENCES

Steve Wilcox  
Playside - Technical Director  
Previously Electronic Arts

Colin Scott-Fleming  
Playside - Software Engineer II  
Previously Amazon

Daniel Stephens  
Playside - Lead Engineer  
Previously Blizzard, THQ

### INTRODUCTION

G'day! As a solutions-oriented software engineer, I refine core systems and implement custom tools to reduce developer iteration time and enhance pipeline scalability. I leverage emergent graphics and engine technologies to shape immersive, high-performance interactive experiences. I tackle problems with unconventional methods—driving innovation, optimizing workflows, and delivering tangible technical results.

### EXPERIENCE

4 year(s) Gameplay development  
1.5 year(s) UIUX development

### PROFICIENCIES

3 year(s) Proprietary Engines → C++20 | C++23  
4 year(s) Unreal 4 → C++19 & Blueprints  
1 year(s) Unity → C# (v9.0)  
1.5 year(s) TypeScript | Javascript | CSS

### SOFT SKILLS

- Team health is just as important as the final product
- Clear and transparent communication
- Scheduling and time awareness

### PLAYSIDE - SOFTWARE ENGINEER II

2.9 YEARS 2022 - 2025

#### Sid Meier's Civilization VII - XR

- UIUX Technical Lead
  - Rewrote the existing UIUX backend → *improving performance by 2000%*
  - Worked with design to meet and revise design and technical requirements
  - Mentored and assisted both frontend and backend UI teams
- Built and maintained core XR gameplay mechanics
- Implemented Meta's achievement system
- Assisted in XR device motion noise reduction for a pleasurable UIUX experience
- Reverse engineered low-level 20 year old *proprietary* engine & tools
- Reverse engineered COPPA and online signing system to interlace XR platform services
- Excellent peer collaboration and communication

### ZERO ONE STUDIO - MID PROGRAMMER

5.5 YEARS 2016 - 2022

#### Overall Responsibilities & Expertise

- Solo developed 13 projects across multiple platforms, engines and languages
- Built an internal DRM keygen system in C++/CLI, leveraging WMIC
- Custom light-weight model viewer to review assets prior to batched UE import
- Built offline stereoscopic rendering tools
- Server maintenance

#### Age of Empires III Definitive Edition

- Technical director for cinematic production
- Built UE editor tools to procedurally generate content
- Built UE visual effects pipeline → painterly style post effects (+ fake GI)
- Low level raytracing and rendering optimization

#### Table of Tales: The Crooked Crown [VR]

- Porting existing PS4VR Unity project to Steam VR & non-XR, Quest 2 & Switch
- Built low profile lighting and shading systems for Quest 2 & Switch
- Converted VR experience into a non-XR experience
- Built dynamic camera system for Steam non-XR
- Bug fixing and optimization across multiple disciplines

#### Audio mixing VR project

- Built backend system using experimental Audio Mixing module in UE
- Users could use their virtual hands to interact with faders & pots
- Instanced stereoscopic rendering & instanced interactables? **23 FPS → 70 FPS**