

# Richard But

Software Engineer

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

## SUMMARY

Software engineer well-versed in generalist and UI/UX video game programming.

## SKILLS

### Languages

- C++
- C#
- Lua
- Java
- Python

### Developer Tools

- Unity
- Godot
- Lumberyard
- Android Studio
- Visual Studio
- Visual Code

### Source Control

- JIRA
- Perforce
- Git
- SCRUM / Agile

### Misc. Tools

- Gimp
- Audacity
- Microsoft Office

## EDUCATION

Bachelor's in Computer Game Science  
*University of California, Irvine*

- Focus on Artificial Intelligence and Algorithms

## AWARDS

*IEE GameSIG, First Runner Up*

- Gundalf

## WORK EXPERIENCE

### • Blind Squirrel Games

*Nov 2019 - Present*

**Role:** Software Engineer I (Generalist/UI/UX)

- Collaborated alongside professional artists, producers, QA, and other engineers to create unified and complete projects
- Sharpened debugging and problem-solving skills through complex and unique problems across multiple projects
- Developed skills to quickly learn and adapt to new programming tools and differing teammates through project transitions

### • LightMed USA

*May 2018 - Nov 2018*

**Role:** R&D Software Engineer

- Engineered and designed various modules for software within medical devices in C#
- Created documentation and performed quality assurance on medical software and hardware

## WORK PROJECT

### • Borderlands 3 & Tiny Tina's Wonderland

- Ported AAA projects to Luna platform, integrating Luna SDK into Unreal Engine's online subsystem
- Updated and modified UI as required by the platform's certification
- Research and optimize games to run on Luna's hardware

### • New World

- Refactored the existing tooltip system to be more accessible
- Coded robust shift modifier input system and remapping screen to be customizable and user-friendly
- Triaged, debugged, and optimized varying systems within the UI and engine
- Hooked up data for the leaderboard system on the backend

### • Sonic Colors: Ultimate

- Developed and provided PC and PS4 console support in C++
- Supported improvement of PS4 memory management and issues
- Engineered and supported various gameplay elements to follow proper design logic
- Designed and programmed user interface for settings screen and HUD for improved user experience

## PERSONAL PROJECT

### • I Wanna Be A Cowboy

[GitHub](#)

**Engine:** Unity | **Language:** C#

- Solo project of Vampire Survivor clone focusing on gameplay mechanics and art design
- Implemented using scriptable objects and OOP to create an expandable product