# LORENZO TORELLI

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**Tools** and **Gameplay programmer** with 5 years of professional experience

### **EXPERIENCE**

#### BEHAVIOUR INTERACTIVE - DEAD BY DAYLIGHT TOOLS PROGRAMMER

**SEPTEMBER 2022 - PRESENT** 

- Contributed to the test automation framework for detecting and fixing gameplay and system issues.
- Implemented support for gameplay automated tests running on PS5 & XSX
- Led the efforts to rewrite the submission tools for game developers to include proper pre-submission validation and a simpler deployment workflow.
- Independently developed an Unreal Engine C++ cheat management tool to aid Dead by Daylight
  developers and QA in executing dev commands on separate platforms such as the Switch,
  reducing QA time

#### **UNITY - SOFTWARE DEVELOPER**

**DECEMBER 2020 - JANUARY 2022** 

- Refactored the Unity Licensing Server allowing for differing and more extensible license types for enterprise users, such as 1-30 day offline-capable floating licenses.
- Implemented **c++** native credential manager access for the Unity **Package Manager** to enable connecting through a **proxy** on a **closed network**.

#### **SCALEPAD - SOFTWARE DEVELOPER**

**APRIL 2019 - DECEMBER 2020** 

- Led initiative to design **workstation management tool** to swap development team from Windows to Linux, enabling > 30-minute workstation setup time.
- Refactored monolithic library into 20 single-responsibility modules for microservices.
- Redesigned CI/CD pipelines with Buildkite and Ansible, reducing pipeline time from 30-50 min to 5-10 min
- Infrastructure as code for the deployment of the backend networking architecture using Terraform/Terragrunt and Kubernetes.

## PERSONAL PROJECTS

# Context & Satchel - Unreal Engine 5.3 code plugins

Context is a contextual entity action library that takes inspiration from the Gameplay Ability System to allow the execution of decoupled hierarchical context-based actions using an entities Gameplay Tags Satchel is a data-oriented item and inventory library that uses Context to define item interactions

#### Entity Component System (C#) - github.com/HelEngine/Hel.ECS

Implements data abstraction for entities using data-oriented concepts and containerization of entity components improving component execution efficiency 3x, allowing 300K components across 100K entities while maintaining 60+ fps

#### **SKILLS**

• Unreal Engine, Unity, GMS2, MonoGame, C#, C++, Java, Python, UE Blueprints, Bash, Powershell