SZUN KIDD **CHOI**

Game Designer and Programmer

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EDUCATION

Rochester Institute of Technology

Aug 2019 - May 2023 (expected)

- B.S. in Game Design and Development, minoring in Mathematics
- 4th year, 4.00 Cumulative GPA

SKILLS

Languages C#, C++, C, JavaScript, Python 3

Tools/Technologies Unity, Unreal Engine, Valve Hammer Editor, MonoGame, PixiJS, Maya, Git, OpenGL, DirectX 11

Process Agile and Scrum Project Management, Trello, Jira, TFS

SELECTED PROJECTS

floG – Game Designer, Level Designer, Multiplayer Developer (Team Size: 4)

13 weeks

Unreal 5, Blueprints Visual Scripting, AdvancedSteamSessions plugin, Git, Trello juuu-jiii.github.io/portfolio/floG Online multiplayer golf game where players can toggle moving obstacles and dynamic hazards to derail opponents

- Designed multiplayer systems and levels to encourage confrontation and interaction among players
- Added online matchmaking using both Steam and IP address, and networked player movement and interactions

The Tunnels – Game Designer, Level Designer, Gameplay Programmer (Team Size: 4)

6 weeks

Unity3D, C#, Git, Trello

juuu-jiii.github.io/portfolio/the-tunnels

- First-person psychological horror walking sim where players escape an entity following them to their dorm room
- Designed gameplay, levels, and narrative to facilitate pacing and tension, and maintained core documentation
- Programmed enemy AI movement using Unity's navmeshes and developed player interaction system

TapRacing - Sole Developer

7 weeks

Unreal 4, Blueprints Visual Scripting, Git

juuu-jiii.github.io/portfolio/tapracing

- Isometric reinvention of the 3D racer; cars can strafe sideways and turn 90 degrees instantly in either direction
- Designed a simple and snappy handling model to facilitate fast-paced, reflex-reliant gameplay
- Got a grasp of Unreal 4's functionality by implementing everything (except the car model) using inbuilt editor tools

EXPERIENCES

Niantic, Inc. - Human AR Intern

May - Aug 2022

C++, C, C#, Unity3D, MediaPipe, TensorFlow Lite, Git, Jira

- Prototyped pose detection and landmarking capability for Lightship ARDK by porting over MediaPipe source code
- Built Unity mobile app to run pose detection on iOS/Android and wrote code to run pose landmarking on Android
- Manipulated RGBA byte arrays and applied affine transformations to pre- and post-process input image data
- Participated in project planning and technical design discussions and contributed to documentation:
 - Documented performance and functional limitations of implementations for future team reference
 - Visually translated project architecture requirements by diagramming MediaPipe graph network relationships
 - Analysed and charted out MediaPipe's implementations to expedite code port over

Fujifilm North America - Co-Op Software Developer I

May - Aug 2021

JavaScript, C#, HTML5/CSS3, Vue.js, Node.js, ASP.NET, MongoDB/Mongoose, Git, TFS

- Added Google Photos support to kiosks by porting over legacy webapp, using WebSockets for user authentication
- Circumvented UI delays due to mandatory backend processes via skeleton loading to show indeterminate progress
- Leveraged promise combinators to shorten asynchronous backend image render operation times by roughly 15%
- Created an upsell modal based on a UX mock-up and defined its behaviour using routing and Vuex store logic
- Added backend capability to calculate and store uploaded image sizes and created corresponding API endpoints

RIT School of Interactive Games and Media – Teaching Assistant

Jan 2021 – Present

C#, Unity, MonoGame, Git

- Support studio classes on casual game development, introductory OOP, and data structures and algorithms
- Mentor student teams, giving actionable feedback on game design, code, and process/project management skills
- Review, grade, and provide constructive comments on game projects and assignments across multiple sections
- Articulate abstract concepts through summarising and explaining lesson material to students
- Clarify students' conceptual doubts and aid debugging in-person and online via class Slack and virtual office hours