Yixin He

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Education

Carnegie Mellon University, Pittsburgh, PA Bachelor of Computer Science & Fine Art, GPA: 3.61 Dean's List: Spring 2018, Fall 2018, Spring 2019

Work Experience

Microsoft

Software Engineer in GPX

- Developed and improved various features for product hydration and search functionality of the Xbox store. +
- + Contributed to service reliability by participating in the on-call rotation, investigating and resolving various bugs and live-site issues, and adding better testing coverage to our existing services.

Gaming Software Engineering Intern in PlayFab

- Developed the bulk action processor, allowing game developers to run actions on large segments of players +
- Implemented CRUD APIs with C# and .NET Core, and developed unit and end-to-end tests using Mog +
- + Added functionality to have actions run at regular scheduled intervals by using Orleans with DynamoDB Carnegie Mellon University Graphics Pittsburgh, PA

Computer Game Programming Intern

Designed and implemented an interactive website depicting the OpenGL rendering pipeline, showing the transformation and flow of data through various buffers and streams during each stage.

Teaching Assistant

- Led lectures and class activities on computer game programming principles such as collisions and walk +meshes as well as weekly office hours for individual student help.
- Worked with instructor to update course topics and infrastructure based on student feedback. Produced +numerous course materials in the form of base code and examples and 3D models for student use.

Related Projects

Victo Ngai-ify F		Pittsburgh, PA
Capstone Project		2019-2020
+	Designed and implemented a series of art-directable stylization shaders for real-time rendering in games	
	based on the art style of Victo Ngai, a contemporary illustrator, using C++ and OpenGL	
+	Presented work at the Undergraduate Research Symposium and SIGGRAPH 2020	
Wate	atercolor Stylization for Games Pittsburgh, PA	
Independent Study Project 2019		
+	Implemented a watercolor stylization shader for real-time rendering in games based on the research paper,	
	"Art-Directed Watercolor Stylization of 3D Animations in Real-Time" using C++ and OpenGL	
+	Presented work at the annual Undergraduate Research Symposium	

Skills

Programming: C++, C#, C, Javascript, Python, HTML/CSS, OpenGL Other: Git, Visual Studio, Photoshop, Premiere, Autodesk Maya, Unity 2016 - 2020

Redmond, WA

2021

2019

2020

2019