(Nixon) Yi Heng Cheng

Computer Grpahics Engineer · Game Developer

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nixon-voxell
nixonyh

SKILLS

Programming Languages	Rust, C#, Python, Typescript, C++, Dart, Java, PHP, R
Expertise	Real-time Physics Simulation, Animation, Motion Graphics, Graphics Programming, VFX, Bevy, Unity3D, Unreal Engine

EXPERIENCE

Physics Simulation Engineer
London, UK

23 Bulbs — *Sep. 2020 - Present*
- Develop GPU accelerated cloth simulation engine.
- Tools & pipeline for cloth/softbody authoring.

Head of Events
KL, Malaysia

APU Game Development Club — *Feb. 2023 - April. 2024*
- Organize and manage events for the club.

Graphics Programmer
Remote

Fiverr — *Jun. 2020 - Aug. 2023*
- Work on vaiours client projects.

Intern Game Programmer
KL, Malaysia

Streamline Studios — *May. 2022 - Aug. 2022*
- Develop Blender addon tools for artists.
- Contributed to Bake n Switch project.

EDUCATION

Asia Pacific University of Technology & Innovation (APU)
*Cumulative GPA: **3.95** / 4.00*

Bachelor of Science (Honours) in Computer Games Development — *Aug. 2022 - Present*

PROJECTS

Bevy MotionGfx
https://github.com/nixon-voxell/bevy_motiongfx
- Motion graphics creation tool in Bevy. (Highly inspired by Motion Canvas and Manim)

Bevy Vello Renderer
https://github.com/nixon-voxell/bevy_vello_renderer
- A minimal integration for rendering Vello graphics in Bevy.

Unity TTS
https://github.com/voxell-tech/UnityTTS
- Text to speech in Unity.

Unity NLP
https://github.com/voxell-tech/UnityNLP
- Natural language processing in Unity.

Unity Audio Visualizer
https://github.com/voxell-tech/UnityAudioVisualizer
- Audio visualizer in Unity using Job System, Burst Compiler, and VFX Graph.

AWARDS

Certificates: https://www.linkedin.com/in/nixonyh/details/honors/

2023 4th All American DAVINCI International Innovation and Invention Expo
Sep. 2023
- Gold Medal
- ATIP Special Award

- OCIIP Special Award
- TISIAS Special Award

DB-SNUbiz Global Startup Challenge 2023 *Sep. 2023*
- Finalist

2023 INNOVERSE Innovation & Invention Expo *Aug. 2023*
- Gold Medal
- INNOPA Special Award
- Canadian Spacial Award of Excellence

The 12th World Invention Creativity Olympic 2023 *Jul. 2023*
- Gold Award
- TISIAS Special Award
- TUMMIAD Special Award

Virtual Innovation Competition 2023 *Jun. 2023*
- Gold Medal

34th International Invention, Innovation & Technology Exhibition *May. 2023*
- Silver Medal

Hilti IT Competition 2023 *May. 2023*
- Semi-Finalist

TALKS