Name: Youngjin Kang
Portfolio: https://thingspool.net
LinkedIn: https://www.linkedin.com/in/youngjin-kang-55321882
Email: architsch@gmail.com   **Current Location:** South Korea

Writings

Game Programming in Prolog https://thingspool.net/morsels/page-10.html

Force-Exchange Network for Gameplay Systems https://thingspool.net/morsels/page-7.html

Universal Laws of Game Design https://thingspool.net/game-design/list.html

Skills

Unity Game Development (Unity, C#)

HTML5 Game Development (Javascript, Typescript, Webpack, Pixi.js, Three.js, React.js)

Graphics Programming (WebGL, OpenGL, GLSL)

Network Programming (Node.js, Express.js, MongoDB, MySQL, Solidity, Web3.js, OpenAI API)

General-Purpose Programming (Java, MATLAB, C, C++, Ruby)

Source Control (GitHub, Perforce, Plastic SCM)

Hardware Engineering (Verilog, FPGA, LCDK, Digital Logic)

Education

University of Washington (Seattle, WA, United States)
- B.S. in Electrical Engineering (Specialized in Digital Signal Processing)

Bellevue High School (Bellevue, WA, United States)
- AP Computer Science, AP Calculus, AP Biology

Work

2024.11 - Present: Director of Engineering (Engaging.ai)
- Planned and developed interactive chatbot apps by utilizing OpenAI's LLM and internal design tools.

2024.1 - 2024.5: Senior Unity Engineer (Branch Technologies, Inc)
- Worked on a real-time MMO game as a generalist Unity engineer.

2022.5 - 2023.7: Tools and Graphics Developer (Galactic Entertainment)
- Developed a custom HTML5 game engine with Three.js, WebGL, and GLSL.

2019.3 - 2022.1: Software Engineer (Valkyrie Entertainment, LLC)
- Developed a Unity multiplayer game with .NET/MySQL.

2017.7 - 2019.3: Software Engineer (Signal Studios, LLC)
- Developed several Unity and HTML5 games with Node.js/MongoDB.

Projects

Castaways (Branch Technologies, Inc) - A cross-platform MMO game with voxel-based sandbox mechanics.

PlanetQuest (Galactic Entertainment) - A Web3 game with real-time networking and procedural generation.

GunsUp! Mobile (Valkyrie Entertainment, LLC) - An asynchronous PvP/PvE multiplayer game (Android, iOS).

Call of Guardians (Signal Studios, LLC) - A synchronous PvP multiplayer battle game (Android, iOS).